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Table of Contents

PREVIOUS
YEAR PAPERS

S.No.	Contents	Page No.
1	Gujarat Drug Inspector – 2024	1-21
2	Uttarakhand Drug Inspector – 2024	22-32
3	UPSC (Union Public Service Commission) Drug Inspector – 2023	33-45
4	Odisha Drug Inspector – 2023	46-56
5	MPSC (Maharashtra Public Service Commission) Drug Inspector – 2023	57-62
6	Telangana Drug Inspector – 2023	63-91
7	Bihar Drug Inspector - 2023	92-116
8	Madhya Pradesh Drug Inspector – 2022	117-129
9	Assam Drug Inspector – 2022	130-135
10	Himachal Pradesh Drug Inspector – 2021	136-142
11	Gujarat Drug Inspector – 2021	143-154
12	Goa Drug Inspector – 2020	155-161
13	Haryana Drug Inspector – 2019	162-168
14	Tamil Nadu Drug Inspector – 2019	169-186
15	UPSC (Union Public Service Commission) Drug Inspector – 2019	187-197
16	Meghalaya Drug Inspector – 2019	198-206
17	Rajasthan Drug Inspector – 2018	207-212
18	Andhra Pradesh Drug Inspector – 2018	213-220
19	UPSC (Union Public Service Commission) Drug Inspector – 2018	221-228
20	Uttar Pradesh Drug Inspector – 2018	229-237
21	Tamil Nadu Drug Inspector – 2018	238-249
22	Madhya Pradesh Drug Inspector – 2017	250-260
23	Kerala Drug Inspector – 2017	261-265
24	Himachal Pradesh Drug Inspector – 2016	266-271
25	MPSC (Maharashtra Public Service Commission) Drug Inspector – 2016	272-281
26	Chhattisgarh Drug Inspector – 2015	282-291

27	UPSC (Union Public Service Commission) Drug Inspector – 2015	292-301
28	MPSC (Maharashtra Public Service Commission) Drug Inspector – 2014	302-310
29	Jharkhand Drug Inspector – 2013	311-340
30	Andhra Pradesh Drug Inspector – 2012	341-355
31	Odisha Drug Inspector – 2012	356-361
32	Tamil Nadu Drug Inspector – 2012	362-373
33	Rajasthan Drug Inspector – 2012	374-378
34	UPSC (Union Public Service Commission) Drug Inspector – 2011	379-387
35	Himachal Pradesh Drug Inspector – 2011	388-393
36	Gujarat Drug Inspector – 2011	394-399
37	Gujarat Drug Inspector – 2010	400-404
38	Chhattisgarh Drug Inspector – 2009	405-410
39	Tamil Nadu Drug Inspector – 2009	411-422
40	MPSC (Maharashtra Public Service Commission) Drug Inspector – 2008	423-432

MODEL PAPERS

1	Model Paper - 1	433-439
2	Model Paper - 2	440-446
3	Model Paper - 3	447-453
4	Model Paper - 4	454-461
5	Model Paper - 5	462-469
6	Model Paper - 6	470-476
7	Model Paper - 7	477-484
8	Model Paper - 8	485-493
9	Model Paper - 9	494-500
10	Model Paper - 10	501-508



DRUG INSPECTOR

SECTION-I

PREVIOUS YEAR PAPERS **With Answer Key**

- 40 Previous Year Paper
- According to Drug Inspector Previous Year Examination

40
PAPERS





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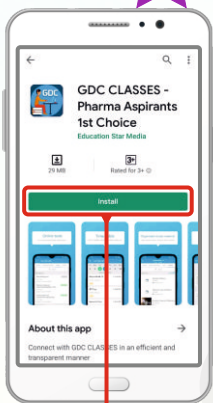
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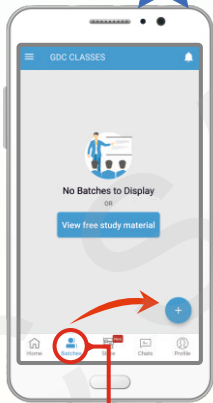
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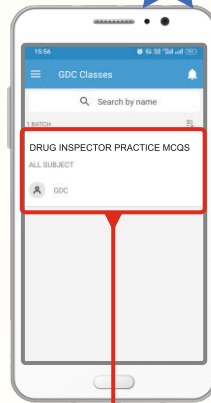
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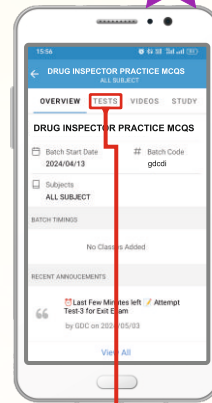
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GUJARAT DRUG INSPECTOR-2024

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1. **What is the name of the umbrella programme launched by the Ministry of Electronics and information Technology (MeitY) to promote artificial intelligence in India**
 - (a) INDIAai
 - (b) AI-INDIA
 - (c) Digital India
 - (d) Art-Int-Ind
2. **Conjunctivitis disease is also known as**
 - (a) Glaucoma
 - (b) Myopia
 - (c) Pink Eye
 - (d) Presbyopia
3. **India aims to achieve the target of 'net zero emissions' by the year**
 - (a) 2047
 - (b) 2050
 - (c) 2060
 - (d) 2070
4. **The phrase "Digital Culture' refers to**
 - (a) The way computers, laptops and mobiles are used
 - (b) The behaviours, practices and values that develop from the use of digital technologies
 - (c) The way students learn from smart technologies
 - (d) The way people interact with audio-visual technology
5. **Which state has the longest mainland coastline in India**
 - (a) Andhra Pradesh
 - (b) Maharashtra
 - (c) Tamil Nadu
 - (d) Gujarat
6. **The permanent campus of the National Academy of Coastal Policing (NACP) is located in**
 - (a) Dwarka, Gujarat
 - (b) Bhuj, Gujarat
 - (c) Kutch, Gujarat
 - (d) Salaya, Gujarat
7. **The Indian Wild Ass Sanctuary in Gujarat is situated in**
 - (a) Little Rann of Kutch
 - (b) Vansda National Park in Navsari
 - (c) Jambughoda Wildlife Sanctuary in Vadodara
 - (d) Velavadar National Park in Bhavnagar
8. **Surkotada in Kutch is known for**
 - (a) Remnants of Indus Valley Civilization
 - (b) Wildlife Sanctuary for barking deer
 - (c) Perlite production
 - (d) Shale Gas reserve
9. **Paintings of which famous artist was commissioned by the Maharaja of Baroda for Laxmi Vilas Palace**
 - (a) Natvar Bhavsar
 - (b) Abdul Gafur Khatri
 - (c) Raja Ravi Varma
 - (d) Ravishankar Raval
10. **Navlakhi Stepwell is located in**
 - (a) Laxmi Vilas Palace in Baroda
 - (b) Vijay Vilas Palace in Bhavnagar
 - (c) Prag Mahal in Kutch
 - (d) Nilambagh Palace in Bhavnagar
11. **The famous Harappan Seal that contains animal motifs and signs was made of a stone called**
 - (a) Steatite
 - (b) Limestone
 - (c) Travertine
 - (d) Igneous
12. **The Harappans used to procure materials like Carnelian stone for craft production from which part of Gujarat**
 - (a) Dholavira
 - (b) Bharuch
 - (c) Lothal
 - (d) Surkotada
13. **Which among the following grains was found relatively rarely at Harappan sites**
 - (a) Wheat and barley
 - (b) Sesame
 - (c) Millets
 - (d) Rice
14. **In 1918, Gandhiji was involved in two campaigns in Gujarat. One was in a labour dispute in Ahmedabad, demanding better working conditions for the textile mill workers. What was his second campaign**
 - (a) He joined peasants in Kheda in asking the state for the remission of taxes following the failure of their harvest
 - (b) In Champaran, demanding peasants' security of tenure as well as the freedom to cultivate the crops of their choice

42. In which country's electoral system does the indigenous people's vote have more value than the citizens of Indian origin

- (a) Sri Lanka (b) Fiji
(c) Maldives (d) Myanmar

43. Which session of the Indian National Congress dwelt on how independent India's Constitution should look like

- (a) The Nagpur session 1920
(b) The Kanpur session 1925
(c) The Karachi session 1931
(d) The Bombay session 1934

44. Beside C. Rajagopalachari, who among the following was the founder of the Swatantra Party

- (a) Kanhaiyalal Maniklal Munshi
(b) Minoo Masani
(c) N.G. Ranga
(d) Darshan Singh Pheruman

45. Match-I (leaders) with Match-II (roles in the making of the Constitution)

MATCH-I

- A. Motilal Nehru
B. B.R. Ambedkar
C. Rajendra Prasad
D. Sarojini Naidu

MATCH-II

- I. President of the Constituent Assembly
II. Member of the Constituent Assembly
III. Chairman of the Drafting Committee
IV. Drafted a Constitution for India in 1928

- (a) A-I, B-II, C-III, D-IV
(b) A-III, B-IV, C-II, D-I
(c) A-IV, B-III, C-I, D-II
(d) A-II, B-I, C-IV, D-III

46. Match-I (guiding values of the Constitution) with Match-II (their meaning)

MATCH - I

- A. Sovereign
B. Republic
C. Fraternity
D. Secular

MATCH - II

- I. The government will not favour any religion

II. People have the supreme right to make decisions

III. Head of the state is an elected person

IV. People should live like brothers and sisters

- (a) A-II, B-III, C-IV, D-I
(b) A-I, B-II, C-III, D-IV
(c) A-III, B-IV, C-II, D-I
(d) A-IV, B-I, C-II, D-III

47. Which statement(s) is/are correct

I. Mahatma Gandhi was not a member of the Constituent Assembly

II. Mahatma Gandhi's ideas, vision and philosophy were followed by many members of the Constituent Assembly

- (a) Only I is correct
(b) Both I and II are correct
(c) Only II is correct
(d) Both I and II are not correct

48. Which among the following statement(s) is/are correct

I. The function of a Constitution is to provide a set of basic rules and specify who has the power to make decisions in a society

II. The function of a Constitution is to set some limits on what a government can impose on its citizens and the government may never trespass them

- (a) Only I is correct
(b) Only II is correct
(c) Both I and II are correct
(d) Both I and II are incorrect

49. Which among the following features of the Indian Constitution is NOT adopted from the British Constitution

- (a) Parliamentary Form of Government
(b) The idea of the rule of law
(c) Institution of the Speaker and her/his role
(d) Principles of Liberty, Equality and Fraternity

50. Which statement(s) is/are correct

I. The Fundamental Rights are protected and guaranteed by the Constitution of the country

II. The Fundamental Right can only be changed by amending the Constitution itself

186. Which of the following is a classical QSAR method

- (a) Hansch Analysis
- (b) Pharmacophore hypothesis analysis
- (c) Comparative molecular field analysis (CoMFA)
- (d) None of these

187. Which of the following programming languages is not commonly used for artificial intelligence

- (a) LISP
- (b) PROLOG
- (c) Perl
- (d) Python

188. Which of the following areas of clinical trials is where artificial intelligence can be utilised

- (a) Clinical trial design
- (b) Patient identification
- (c) Monitoring trial
- (d) All of these

189. Which of the following is the latest FDA approved drug for the treatment of anaemia due to chronic kidney disease

- (a) Vadadustat
- (b) Danicopan
- (c) Pegulicicanine
- (d) None of these

190. Which of the following fields is used to redesign organisms that synthesise precursors for antibiotics and polymers

- (a) Microbiomics
- (b) Metabolomics
- (c) Chemical Biology
- (d) Synthetic Biology

191. Sebaceous glands are absent in

- (I) Hair follicles
- (II) Palms
- (III) Soles
- (IV) Breast
- (a) (II) and (III)
- (b) (I), (II) and (III)
- (c) (II) only
- (d) (III) and (IV)

192. Which of the following sutures unites the two parietal bones to the occipital bone

- (a) Coronal suture
- (b) Squamous suture
- (c) Sagittal suture
- (d) Lambdoid suture

193. The gray colour of gray matter is due to

- (a) Lipofuscin
- (b) Myelin
- (c) Nissl's bodies
- (d) Melanin

194. Match the column

- P. Capitate
- Q. Talus
- R. Calcaneus
- S. Scaphoid
- I. Uppermost tarsal bone

II. Boat-like carpal bone

III. Largest carpal bone

IV. Largest and strongest tarsal bone

- (a) P-III, Q-I, R-IV, S-II
- (b) P-IV, Q-III, R-I, S-II
- (c) P-I, Q-IV, R-II, S-III
- (d) P-II, Q-I, R-IV, S-III

195. Identify the CORRECT order of direction of flow in a typical neuron

- (a) Cell body → Axon terminals → Axon → Dendrites
- (b) Dendrites → Cell body → Axon → Axon terminals
- (c) Axon terminals → Axon → Cell body → Dendrites
- (d) Cell body → Dendrites → Axon terminals → Axon

196. The apparatus commonly used to measure the volume of air exchanged during breath and the respiratory rate is known as

- (a) Sphygmomanometer
- (b) Spirometer
- (c) Pulse Oximeter
- (d) Glucometer

197. Match the column

- P. Human Growth Hormone
- Q. Melanocyte Stimulating Hormone
- R. Luteinizing Hormone
- S. Prolactin
- I. Gonadotrophs
- II. Somatotrophs
- III. Lactotrophs
- IV. Corticotrophs

- (a) P-IV, Q-II, R-I, S-III
- (b) P-II, Q-IV, R-I, S-III
- (c) P-III, Q-I, R-IV, S-II
- (d) P-II, Q-III, R-I, S-IV

198. Match the column

- (A) Lengthening of P-Q interval
- (B) S-T segment Elevation
- (C) Lengthening of Q-T interval
- (D) Enlarged R waves
- I. Acute Myocardial infarction
- II. Myocardial ischemia
- III. Enlarged ventricles
- IV. Coronary Artery Disease

- (a) (A)-III, (B)-IV, (C)-I, (D)-II
- (b) (A)-IV, (B)-III, (C)-II, (D)-I
- (c) (A)-IV, (B)-I, (C)-II, (D)-III
- (d) (A)-II, (B)-I, (C)-IV, (D)-III

UTTARAKHAND DRUG
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- Consultative Committee for Narcotics and Psychotropic Substances are constituted with**
 - A Chairman and not more than 20 members
 - A Chairman and not more than 30 members
 - A Chairman and not more than 40 members
 - A Chairman and not more than 50 members
- Indian Pharmacopoeia Commission got legal status under _____ of Drugs and Cosmetic Act and Rules**
 - First Schedule
 - Second Schedule
 - Third Schedule
 - Fourth Schedule
- A price fixed by the Government for Scheduled formulations is known as**
 - Ceiling price
 - Maximum retail price
 - Price to retailer
 - Retail price
- The latest Pharmacy Education Regulations have been notified in the year**
 - 1991
 - 2010
 - 2018
 - 2020
- The ratio of dry glycerine to dry gelatin in case of soft capsule is**
 - 04/1
 - 0.6/1
 - 0.8/1
 - 1.2/1
- A reversible, time-dependent, isothermal, gel-sol transition flow is called**
 - Thixotropic flow
 - Bingham-type plastic flow
 - Pseudoplastic flow
 - Elastic flow
- What would be osmotic pressure of 50 g dextrose in 1000 ml of water at room temperature (25°C)**
 - 6.79 atm.
 - 68.4 atm.
 - 0.684 atm.
 - 0.0684 atm.
- The Histoplasmin USP is used as**
 - Diagnostic aid
 - Passive immunizing agent
 - Active immunizing agent
 - Blood-volume expansion
- Which of the following test of emulsion may fail in case of non-ionic o/w emulsions**
 - Dye test
 - Dilution test
 - Cobalt chloride test
 - Conductivity test
- The _____ may serve as adjuvant. that have lost their toxicity but retain their immunogenicity are called and**
 - Endotoxin, Pyrogen
 - Exotoxin, Toxoids
 - Exotoxin, Pyrogen
 - Endotoxin, Toxoids
- Given, the K of morphine is 7.4×10^{-7} . What is the hydroxyl ion concentration of 0.02 M solution**
 - 0.1216×10^{-4} G-ion/L
 - 1.216×10^{-4} G-ion/L
 - 0.148×10^{-4} G-ion/L
 - 1.48×10^{-4} G-ion/L
- Capacity of '000' size empty gelatin capsule is**
 - 1.40 ml
 - 1.80 ml
 - 0.95 ml
 - 0.68 ml
- Medicinal and Toilet preparation are stored in bulk jars or bottles, each containing**
 - Not less than 2,200 ml
 - Not less than 2,273 ml
 - Not less than 2,500 ml
 - Not less than 3,000 ml
- The material (1.0 g/ml, density) fill capacity of hard gelatin capsule of size no. 1 is**
 - 300 mg
 - 400 mg
 - 500 mg
 - 600 mg
- Which one in the example of long acting insulin**
 - Insulin lispro
 - Insulin glargine
 - Isophane (NPI) insulin
 - Regular insulin

UPSC DRUG INSPECTOR-2023

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1. **According to GCP guidelines, the minimum number of members required in quorum of Ethics Committee to review the protocol is**
 - (a) 5
 - (b) 6
 - (c) 7
 - (d) 9
2. **According to GCP guidelines, which one of the following statements does not hold true for Ethics Committee**
 - (a) All members serving in Ethics Committee that oversees human research at an institution must be employed by that institution
 - (b) Ethics Committee should include at least one member whose primary area of interest is non-scientific
 - (c) Ethics Committee should have appropriate gender representation
 - (d) For review of each protocol the quorum of Ethics Committee shall be at least five members
3. **Which one of the following is not considered as the essential element in the study subject's informed consent documents according to GCP guidelines**
 - (a) Expected duration of the subject's participation
 - (b) An explanation about whom to contact for trial related queries, rights of subjects and in the event of an injury
 - (c) A statement that there is a possibility of failure of investigational product to provide intended therapeutic effects
 - (d) A statement that the particular treatment or procedure may invoke risks to the subject, which are currently unforeseeable
4. **As per ICH E₆ GCP guidelines, all of the following should be complied EXCEPT**
 - (a) Information recorded in the investigator's reports should be complete, accurate and legible
 - (b) Any missed study visits may not be noted in the reports
 - (c) Subjects who were dropped from or failed to complete the study are noted in the report with the reason adequately explained
 - (d) Informed consent should be adequately documented
5. **As per ICH GCP guidelines, whose responsibility is it to ensure that investigators are qualified by education and experience and are trained on the conduct of the protocol**
 - (a) FDA
 - (b) Study sponsor
 - (c) Investigator
 - (d) Ethics Committee
6. **The document retention period as required by FDA following the date of marketing application approval or after the investigation is discontinued and the FDA notified, is**
 - (a) One year
 - (b) Two years
 - (c) Three years
 - (d) Five years
7. **In indirect Enzyme-Linked Immunosorbent Assay**
 - (a) A standardized monoclonal antibody is immobilized on the solid support for detection
 - (b) A standardized polyclonal antibody is immobilized on the solid support for detection
 - (c) Antigen-antibody complex is immobilized on the solid support for detection
 - (d) A standardized antigen is immobilized on the solid support for detection
8. **Which one of the following antibodies is responsible for allergic reaction**
 - (a) IgE
 - (b) IgG
 - (c) IgM
 - (d) IgA
9. **Which one of the following is not a bacterial vaccine**
 - (a) BCG vaccine
 - (b) Pertussis vaccine
 - (c) Meningococcal vaccine
 - (d) Measles vaccine

134. The drugs specified under which of the following schedules to the Drugs and Cosmetics Rules, 1945 will not be sold by retail except on and in accordance with the prescription of Registered Medical Practitioner

- | | |
|---------------|----------------------------|
| 1. Schedule U | 2. Schedule Y |
| 3. Schedule H | 4. Schedule H ₁ |
| 5. Schedule X | |

Select the correct answer using the code given below

- | | |
|------------------|-------------------|
| (a) 3 and 4 only | (b) 3, 4 and 5 |
| (c) 1, 2 and 3 | (d) 2, 3, 4 and 5 |

135. The medical devices shall conform to the standards laid down by the

1. WHO
2. US FDA
3. Bureau of Indian Standards (BIS)
4. ISO/IEC/Pharmacopoeial standards where BIS standards are not available

Select the correct answer using the code given below

- | | |
|------------------|------------------|
| (a) 1 and 2 only | (b) 1, 3 and 4 |
| (c) 2 and 3 only | (d) 3 and 4 only |

136. Which one of the following is not applicable to non-linear pharmacokinetics

- (a) The elimination or absorption half-lives change as doses are increased
- (b) The area under the curve (AUC) increase in a proportional manner to the administered dose
- (c) The composition and/or ratio of the metabolites of a drug may be affected by a change in the dose
- (d) Elimination or absorption of drug does not follow simple first-order kinetics

137. Presystemic metabolism

1. Occurs in liver as first-pass metabolism
2. Occurs in intestine and its walls
3. Occurs when drug is administered transdermally or by inhalation
4. Results in decrease in bioavailability

Select the correct answer using the code given below

- | | |
|----------------|----------------|
| (a) 1, 2 and 4 | (b) 1, 3 and 4 |
| (c) 1, 2 and 3 | (d) 2, 3 and 4 |

138. An IV dose of 500 mg is administered to a patient. It was observed that 70% of the dose was recovered unchanged in the urine. The

AUC (area under the curve) was found to be 362 mg.hr/L. What will be the total clearance rate (TCR), metabolic clearance rate (MCR) and renal clearance rate (RCR)

- (a) TCR = 23 mL/min, RCR = 16.1 mL/min, MCR = 9.2 mL/min
- (b) TCR = 63 mL/min, RCR = 44.1 mL/min, MCR = 8.1 mL/min
- (c) TCR = 23 mL/min, RCR = 16.1 mL/min, MCR = 6.9 mL/min
- (d) TCR = 46 mL/min, RCR = 32.2 mL/min., MCR = 13.8 mL/min

139. Which of the following statements are not correct regarding dissolution testing of solid dosage forms

1. Dissolution tests are used to aid formulation development, check product quality and performance and to assess batch-to-batch quality of a drug with respect to drug product specifications
2. Dissolution test conditions are not selected based on properties of the drug and the type of drug form
3. Dissolution is often the rate-limiting step in the absorption of drugs with poor water solubility
4. Dissolution cannot be correlated to oral bioavailability whilst disintegration of dosage form is a strong indicator of oral bioavailability

Select the correct answer using the code given below

- | | |
|------------------|------------------|
| (a) 1 and 3 only | (b) 1 and 2 only |
| (c) 2 and 4 only | (d) 1 and 4 only |

140. Which one of the following is not correct for dosage forms prepared using protein-based drugs

- (a) Trehalose and sucrose are ineffective in preventing protein denaturation
- (b) Low pH, i.e. pH 3-6 prevents chemical degradation
- (c) Cyclization of proteins makes them less susceptible to gut amino and carboxy peptidases
- (d) Metal chelating agents can be used to enhance the stability

ODISHA DRUG INSPECTOR-2023

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- Which of the antihistaminic drug was withdrawn from the market owing to cardiac adverse effects**
(a) Cetirizine (b) Loratadine
(c) Terfenadine (d) Clemastine
- Which one is not the side effect of steroids**
(a) Hyperglycaemia (b) Bone density decline
(c) Muscular weakness (d) Hypoxia
- For CNS penetration which is desirable quality**
(a) Lipid soluble (b) Weak bases
(c) Weak acids (d) All of these
- Which of these is used as preanesthetic medication**
(a) Aspirin (b) Atropine
(c) Amlodipine (d) Astaxanthin
- Most common side effect of Morphine is**
(a) Liver damage (b) Tinnitus
(c) Blood dyscrasias (d) Constipation
- Which of these should not be given to a patient with active Tuberculosis**
(a) Kanamycin (b) Hydrocortisone
(c) Alpha lipoic acid (d) Streptomycin
- Which of these anticoagulant is the fastest acting**
(a) Heparin (b) Warfarin
(c) Protamine sulfate (d) Ouabain
- Cochicine was used mainly for treating**
(a) Arthritis (b) Gout
(c) Diabetes (d) Hypertension
- Most useful treatment option for Bacterial Meningitis is**
(a) Tetracycline (b) Cefotaxime
(c) Kanamycin (d) Carbachol
- Which of the following is TNF blocker**
(a) Atenolol (b) Sodium Barbiturate
(c) Etanercept (d) Cromolyn Sodium
- Incorrect statement about the important properties of Corona Virus**
(a) Non-Enveloped RNA virus
(b) Enveloped RNA virus
(c) Contagious
(d) Can spread from person to person
- Phenytoin should not be used during pregnancy because it cause**
(a) Gum hypertrophy
(b) Hypersensitivity
(c) Hirsutism
(d) Hypoplastic phalanges
- Digitalis improves atrial fibrillation by**
(a) Decrease conduction through AV
(b) By decreasing cardiac contractility of AV
(c) Increase in refractoriness nodal tissue
(d) By causing bradycardia
- Adverse effect of depot preparation of Triamcinolone**
(a) Atopic dermatitis (b) Proximal myopathy
(c) Vasculitis (d) Atrophic rhinitis
- Which of the following drug is devoid of decreasing angiotensin II activity**
(a) Enalapril (b) Valsartan
(c) Nesiritide (d) Omapatrilat
- Which of the following drug is having additional platelet anti-aggregatory effect**
(a) Prazosin (b) Losartan
(c) Amlodipine (d) Diazoxide
- Metoprolol is metabolized by which of the following enzyme**
(a) CYP2C9 (b) CYP2C19
(c) CYP2C8 (d) CYP2D6
- Which of the following statement is not true with respect to butyryl cholinesterase**
(a) It is found in all cholinergic sites, RBC, and gray matter
(b) It is found in plasma, liver, intestine, and white matter
(c) It slowly hydrolyses Acetylcholine
(d) It is responsible for the hydrolysis of ingested esters

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- The substance involved in the control of platelet production is
(a) Plasminogen (b) Thrombopoietin
(c) Fibrinogen (d) Erythropoietin
- Plasma from which the clotting factors are removed is known as
(a) Lymph (b) Serum
(c) Plasmin (d) Platelet
- Vitamin K is essential for the synthesis of the following factors EXCEPT
(a) Factor IX (b) Factor X
(c) Factor III (d) Factor II
- The shape of erythrocyte disc is
(a) Biconvex (b) Concave
(c) Convex (d) Biconcave
- Neutrophils squeeze through the capillary walls in the area of infection through a process called
(a) Decussation (b) Dysplasia
(c) Deglutition (d) Diapedesis
- The clotting factor, Factor IX is otherwise known as
(a) Christmas Factor (b) Hageman Factor
(c) Labile Factor (d) Stuart Prower Factor
- AIDS is a/an _____ immunodeficiency disease
(a) Secondary (b) Primary
(c) Tertiary (d) Quaternary
- Trichomonas vaginalis* is a
(a) Fungi (b) Bacteria
(c) Protozoa (d) Virus
- The type of spirochaete bacteria responsible for producing syphilis is
(a) Leptospira (b) Helicobacter
(c) Borrelia (d) Treponema
- The gene for reverse transcriptase which act as marker for laboratory diagnosis of HIV infection is
(a) Gag (b) Tat
(c) Pol (d) Env
- Type I hypersensitivity reaction is mediated by antibodies
(a) IgM (b) IgA
(c) IgG (d) IgE
- Which drug among the following antifungals act by inhibiting the formation of glucan in fungal cell wall
(a) Allylamines (b) Polyenes
(c) Echinocandins (d) Azoles
- _____ is the main mineralocorticoid in humans
(a) Serotonin (b) Aldosterone
(c) Cortisol (d) Androgen
- One among the following drug is a Vitamin K antagonist anticoagulant
(a) Enoxaparin (b) Dalteparin
(c) Warfarin (d) Heparin
- A drug with high affinity for receptor and high intrinsic activity is a/an
(a) Agonist (b) Antagonist
(c) Partial agonist (d) Inverse agonist
- The major carrier protein of acidic drugs in the blood stream is
(a) Globulin (b) Keratin
(c) Ferritin (d) Albumin
- Which among the following drug is a reversible carbamate inhibitor used for the treatment of Alzheimer disease
(a) Tacrine (b) Galantamine
(c) Rivastigmine (d) Donepezil
- The enteral route of administration depicts one among the following route
(a) Intrathecal (b) Buccal
(c) Transdermal (d) Inhalation
- Dipeptidyl peptidase IV is a _____ protease
(a) Threonine (b) Aspartic
(c) Cysteine (d) Serine

- (c) Either conclusion II follows or conclusions I and III together follow
- (d) Either conclusion I or II follows, but III is uncertain

96. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements

Statements

1. Use social media only if I am bored. I am not bored when I have my friend's company

Conclusions

- II. If I am bored, I seek my friend's company
- III. I don't use social media when my friend is present

Options

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both conclusion I and II follow
- (d) Neither conclusion I nor II follows

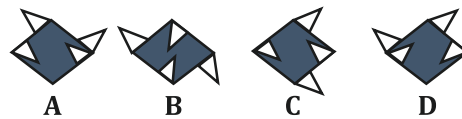
97. Three of the following four figures are alike in a certain way and one is different. Select the odd one



- (a) A
- (b) B
- (c) C
- (d) D

98. Three of the following four figures are alike in

a certain way and one is different. Select the odd one



- (a) D
- (b) C
- (c) B
- (d) A

99. Three statements are given followed by three conclusions numbered I, II, and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements

Statements

- (1) All sparrows are pigeons
- (2) Some sparrows are crows
- (3) All crows are kites

Conclusions

- I. All pigeons are kites
- II. Some kites are pigeons
- III. All sparrows are kites

Options

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Only conclusion III follows
- (d) Either conclusion I or II follows

100. Which Letter-number cluster will replace the question mark (?) in the following alpha-numeric series to make it logically complete
TG61, QJ56, NM52, KP49, ?

- (a) IR47
- (b) HS52
- (c) IR52
- (d) HS47

ANSWER KEY

1-b	2-b	3-c	4-d	5-d	6-a	7-a	8-c	9-d	10-c
11-d	12-c	13-b	14-c	15-a	16-d	17-c	18-b	19-d	20-a
21-c	22-a	23-a	24-d	25-c	26-a	27-c	28-a	29-b	30-d
31-c	32-a	33-b	34-a	35-d	36-c	37-b	38-a	39-b	40-d
41-c	42-d	43-b	44-a	45-a	46-b	47-d	48-b	49-c	50-d
51-c	52-b	53-c	54-c	55-d	56-a	57-a	58-d	59-c	60-b
61-a	62-b	63-d	64-b	65-d	66-c	67-c	68-c	69-b	70-d
71-d	72-d	73-a	74-a	75-d	76-b	77-d	78-a	79-a	80-b
81-d	82-b	83-b	84-d	85-c	86-c	87-b	88-c	89-a	90-d
91-b	92-b	93-c	94-c	95-d	96-b	97-d	98-c	99-b	100-d

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SHIFT-I

1. In a certain code language, 'IMP' is written as 'HJLNOQ'

Based on the given coding, match the following

A. TAG	1. SUDFMO
B. TIE	2. SUHJDF
C. TEN	3. SUZBFH

- (a) A-3, B-2, C-1 (b) A-2, B-3, C-1
(c) A-2, B-1, C-3 (d) A-1, B-2, C-3

2. Which of the following statements about the Telangana state is/are NOT correct

- A. It is surrounded by Karnataka in the West
B. It is surrounded by Maharashtra in the East
C. There are 32 Zilla Praja Parishads in Telangana state as on 2022

- (a) Only B (b) Only A
(c) Both B and C (d) A and B

3. Match the following Acts and Policies with their respective descriptions

1. Indian Independence Act	A. Policy of non-cooperation with British
2. Government of India Act, 1935	B. Act that granted India Dominion status
3. Swadeshi Movement	C. Act that provided for the establishment of provincial autonomy
4. Quit India Movement	D. Mass civil disobedience movement against British rule

- (a) 1-B, 2-A, 3-C, 4-D (b) 1-C, 2-B, 3-D, 4-A

- (c) 1-C, 2-D, 3-A, 4-B (d) 1-B, 2-C, 3-A, 4-D

4. Fill in the blank with the most appropriate option.

We all are not pawns in the hands of time, we

- (a) aren't (b) can't
(c) have (d) are

5. Which country won the gold medal in men's hockey at the 2020 Tokyo Olympics

- (a) Australia (b) India
(c) Belgium (d) Netherlands

6. Which of the following are unique arts of Telangana state in which silver is engraved on metal and then black, gold, and silver coatings are applied

- (a) Banjara Needle Crafts
(b) Dokra Metal Crafts
(c) Nirmal Arts
(d) Bidri Craft

7. Eight brothers, Aman, Binod, Chaman, Dev, Eshan, Faisal, Gautam and Hemant are sitting around a square table in such a way that four of them sit at four corners of the square while four sits in the middle of each of four sides. The one who sits at four corners faces the centre while those who sit in the middle of the sides face outside, Aman who faces the Centre sits third to the right of Faisal. Eshan, who faces Centre, is not an immediate neighbour of Faisal. Only one person sits between Faisal and Gautam. Dev sits second to the right of Binod. Binod faces the centre. Chaman is not an immediate neighbour of Aman

Which of the following statements) is/are true based on the above conditions

64. Read the following statements and choose the correct answer

Statement 1: Fundamental rights are enshrined in Part III of the Constitution of India

Statement 2: Right to education is not a fundamental right in India

- (a) Statement 1 is true, statement 2 is false
- (b) Both statements are true
- (c) Both statements are false
- (d) Statement 1 is false, statement 2 is true

65. Choose the correct combination of statements related to the State Legislature under the Union and State Government of India

1. The State Legislature consists of the Governor and the Legislative Council
2. The Legislative Assembly is the lower house of the State Legislature
3. The maximum strength of the Legislative Assembly is determined by the size of the state's population
4. The term of the Legislative Assembly is five years, unless dissolved earlier

- (a) Statements 2, 3 and 4 are correct
- (b) Statements 2 and 4 are correct
- (c) Statements 2 and 3 are correct
- (d) Statements 1, 2 and 3 are correct

66. Which of the following is a serious public health concern associated with the excessive use of chemical fertilizers and pesticides in agriculture

- (a) Increased risk of COVID-19
- (b) Increased risk of malaria
- (c) Neurological disorders
- (d) High changes of human immunodeficiency virus infection and acquired immune deficiency syndrome (HIV/AIDS)

67. Arrange the following events in chronological order based on their timeline of implementation in India

- A. Introduction of HYVP (High-Yielding Variety Programme)
- B. The Advisory Board for the Imperial Council of Agricultural Research (ICAR) plans India's participation in the UN FAO
- C. The Great Bengal Famine occurs
- D. First Five-Year Plan

- (a) C, B, D, A
- (b) B, A, D, C
- (c) A, C, B, D
- (d) A, D, C, B

68. Which of the following organs is responsible for producing a hormone that regulates blood sugar in the human body

- (a) Kidney
- (b) Pancreas
- (c) Lungs
- (d) Liver

69. To avail of the benefits of the Kalyana Lakshmi Shaadi Mubarak scheme of Telangana state, a combined annual income of her parents NOT exceeding _____ are eligible for the Scheme

- (a) ₹ 2 lakhs per annum
- (b) ₹ 2.5 lakhs per annum
- (c) ₹ 1.5 lakhs per annum
- (d) ₹ 3 lakhs per annum

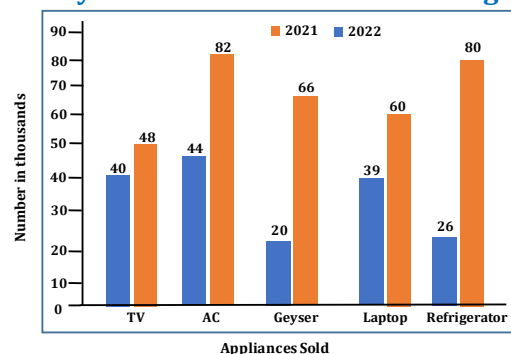
70. Select the most appropriate meaning of the proverb given below
"Easy come, easy go"

- (a) When something is easily obtained, it is typically lost just as easily
- (b) Be patient, things take time to happen
- (c) If you associate with bad or dishonest people, bad will happen to you
- (d) You cannot change the past

71. From the options choose the correct active voice form for the sentence given below. The thoughts in her mind didn't match the words she spoke is what she realized

- (a) Her words didn't match her thoughts
- (b) Her thoughts do not match her words
- (c) The words she spoke didn't match the thoughts in her mind, is what she realised
- (d) She realised that the words she spoke didn't match the thoughts in her mind

72. The Bar graph shows the number of different types of electronics sold (in thousands) by a shop in the years 2021 and 2022. The quantity of Laptops sold in 2021 is what percent of the quantity of TV and AC sold in 2022 together



- (a) 30%
- (b) 20%
- (c) 33%
- (d) 25%

131. Which of the following statements about the Himalayas is NOT true

- (a) The Himalayas are the tallest mountain range in the world
- (b) The Himalayas spread across five countries, including India
- (c) The Himalayas are primarily made up of sedimentary rocks
- (d) The Himalayas were formed due to the collision of the Indian and Eurasian tectonic plates

132. Fill in the blank with the most appropriate option

I was too ____ to make sense of any of it

- (a) daisy
- (b) dazzled
- (c) days
- (d) dazed

133. Lizard comes under which category of animals

- (a) Fish
- (b) Reptile
- (c) Mammal
- (d) Amphibian

134. Two Statements are given followed by two conclusions numbered I and II Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements

Statements

Some books are schools

All schools are hospitals

Conclusions

I. Some banks are hospitals

II. All hospitals are school

- (a) Only II follows
- (b) Only I follows
- (c) Neither I nor II follows
- (d) Both I and II follows

135. Fill in the blank with the most appropriate option

The so-called Brahmin before him might be _____ Yudhishtir himself

- (a) however
- (b) perhaps
- (c) somewhat
- (d) actually

136. Match the CORRECT pair of event and year of occurrence of the event

Pair	Event	Year
A	K Chandrasekhar Rao launched his Bharat Rashtra Samiti (BRS) party by renaming the existing Telangana Rashtra Samiti	2022
B	K Chandrashekar Rao went for early assembly elections	2018
C	K Chandrashekar Rao was sworn in as the first chief minister of the Telangana state	2014

- (a) Only A
- (b) A, B, and C
- (c) Both A and B
- (d) Both C and B

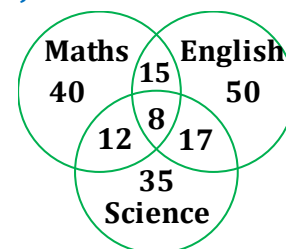
137. Which of the following dishes of Telangana state is also known as Tapala Chekka or Grinne Appa

- (a) Sarva Pindi
- (b) Garijalu
- (c) Pacchi Pulusu
- (d) Sajja Rotte

138. Perini Sivathandavam or Perini Thandavam dance of Telangana state used to be performed by which of the following groups of people

- (a) Farmers
- (b) Clerics
- (c) Storyteller
- (d) Warriors

139. The following Venn diagram shows subjects selected by the number of students in a class. Find the number of students who have selected only 2 subjects



- (a) 52
- (b) 36
- (c) 44
- (d) 50

140. Which of the following initiatives was launched by the Government of India to encourage innovation and research in the field of science and technology, especially among women

- (a) Make in India Initiative
- (b) Digital India Programme
- (c) Pradhan Mantri Jan Dhan Yojana
- (d) Knowledge Involvement in Research Advancement through Nurturing (KIRAN scheme)

SHIFT-II

1. **Which statement is correct regarding drug Ivermectin BP**
 - (a) Its peak levels in plasma are achieved within 24-36 hours after oral administration
 - (b) It is green crystalline powder
 - (c) It is practically insoluble in water
 - (d) It has terminal half-life of about 2 hours in adults
2. **What is the name given to hypertension with a known cause**
 - (a) Essential hypertension
 - (b) Primary hypertension
 - (c) Malignant hypertension
 - (d) Secondary hypertension
3. **Which of the following statement is correct regarding the sterilization of needles**
 - I. **Needles can be sterilized by autoclaving or dry heat method**
 - II. **Suture needles may be sterilized in the air at 16°C for 60 minutes**
 - (a) Neither I nor II
 - (b) Only II
 - (c) Both I and II
 - (d) Only I
4. **Which of the following statements is correct regarding the coronary artery disease**
 - I. **Chest pain is the most common symptom associated with this disease**
 - II. **The entire symptom complex of this disease has been termed angina pectoris**
 - (a) Only I
 - (b) Only II
 - (c) Both I and II
 - (d) Neither I nor II
5. **Match the following types of shocks with their etiological factors**

Types of shock

 - I **Neurogenic shock**
 - II **Cardiogenic shock**
 - III **Hypovolemic shock**

Etiological factors

 1. **Arrhythmias**
 2. **Spinal Anesthesia**
 3. **Loss of plasma due to burns**
 - (a) I-2, II-3, III-1
 - (b) I-2, II-1, III-3
 - (c) 1-3, II-1, III-2
 - (d) I-1, II-3, III-2
6. **What is the clear, colourless liquid composed primarily of water that protects the brain and spinal cord from chemical and physical injuries called**
 - (a) Synovial fluid
 - (b) Transcellular fluid
 - (c) Cerebrospinal fluid
 - (d) Pleural fluid
7. **Match the following Receptors with their locations and choose the correct option**
 - I. **Nicotinic receptor**
 - II. **α_1 receptor**
 - III. **β_2 receptor**
 1. **Ciliary muscle in eye**
 2. **Salivary gland cells**
 3. **Chromaffin cells of adrenal medullae**
 - (a) I-1, II-2, III-3
 - (b) I-2, II-3, III-1
 - (c) I-1, II-3, III-2
 - (d) I-3, II-2, III-1
8. **Which drug is used in some patients with sickle cell disease to promote transcription of the normal Hb-F gene**
 - (a) Prednisone
 - (b) Hydroxyurea
 - (c) Cotrimoxazole
 - (d) Diethylcarbamazine
9. **Which of the following statement is correct about Collodions**
 - I. **Collodions are the liquid preparations meant for external application to skin**
 - II. **They are applied with a brush or rod**
 - III. **Flexible collodion contains pyroxillon, castor oil and alcohol in solvent ether**
 - (a) Only III
 - (b) II and III only
 - (c) II and III
 - (d) I and II only
10. **Which of the following treatments can be used for Scabies**
 - I. **Single application of gamma benzene hexachloride (GBH) 1% to the whole body below the neck**
 - II. **Crotamiton applied as cream twice during a 48-hour period**
 - III. **Dapsone and rifampicin for 3 days**
 - (a) I and II only
 - (b) I, II and III
 - (c) II and III only
 - (d) Only III

52. In the context of Hospital acquired infections, which pair of type of hospital infection-Its description is correct
- Infections of alimentary tract - These occur more commonly in infants in maternity wards and children in paediatric ward. For example coliform enteritis is common in infants
 - Infections of urinary tract - These continue major type of hospital acquired infection which may occur due to catheterization
- (a) Both I and II (b) Only I
(c) Only II (d) Neither I nor II
53. By intramuscular route, what is the usual dose of Tetracycline Hydrochloride, BP, IP
- (a) 2000 mg to 2400 mg daily in divided doses
(b) 1000 mg to 1200 mg daily in divided doses
(c) 1500 mg to 2000 mg daily in divided doses
(d) 200 mg to 300 mg daily in divided doses
54. In the context of parts of prescription, which statement is correct regarding "Signatura"
- It consists of the directions to be given to the patient regarding the administration of drug
 - It is usually abbreviated as "Sig"
 - It is always written at the beginning of prescription
- (a) Only III (b) Only II and III
(c) Only I and II (d) Only I
55. Consider the asexual cycle of different parasites and choose the correct pair
- P. vivax*, *P. ovale*: 48 hours, synchronous
 - P. falciparum*: 48 hours asynchronous
 - P. malariae*: 72 hours asynchronous
- (a) I and II only (b) I, II and III
(c) II and III only (d) Only III
56. Match the following granular leukocytes with their corresponding distinctive features. Choose the correct option
- Neutrophil
 - Basophil
 - Eosinophil
- Smaller and evenly distributed granules
 - Large and uniform-sized granules
 - Round and variable sized granules
- (a) I-3, II-2, III-1 (b) I-2, II-1, III-3
(c) I-1, II-2, III-3 (d) I-1, II-3, III-2
57. In the adult human brain, the pons lies directly superior to the medulla and anterior to the cerebellum and is
- (a) About 2.5 cm long (b) About 1.5 cm long
(c) About 1 cm long (d) About 3 cm long
58. Which of the following statement is correct regarding Aerosols
- Aerosols may be defined as the pressurized dosage form of medicament in which the liquid or solid drug or drugs are dissolved or suspended in gas
 - Aerosols used in the treatment of respiratory conditions, are atomized in devices known as nebulizers
- (a) Only I (b) Only II
(c) Neither I nor II (d) Both I and II
59. The normal serum osmolality is in the range of mOsmol/kg
- (a) 180-200 (b) 40-60
(c) 275-300 (d) 120-140
60. In the context of evaluation of ophthalmic suspension, the rate at which the suspension particles settle in the vehicle is called
- (a) Sedimentation rate (b) Squeesability
(c) Redispersibility (d) Viscosity
61. Which of the following is a method of disinfection which used chemical agent
- (a) Using autoclaving (b) Using burning
(c) Using halogens (d) Using radiation
62. In the context of antiviral drugs, match the following
- | Classification of | Drug Name |
|-----------------------------------|----------------------|
| Anti - viral Drugs | |
| I Anti - Influenza | 1 Amantadine |
| II Anti - Herpes virus | 2 Tenofovir |
| III Anti - Hepatitis virus | 3 Cidofovir |
| (a) I-1, II-3, III-2 | (b) I-2, II-1, III-3 |
| (c) I-2, II-3, III-1 | (d) I-1, II-2, III-3 |
63. Which of the following statement is correct regarding Tinctures
- They are alcoholic liquid preparations containing the active principles of vegetable drugs
 - They are usually prepared by maceration or percolation
 - Aromatic Cardamom and Nux vomica are its examples
- (a) I, II and III (b) Only I and II
(c) Only I (d) Only III

7

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PHARMACEUTICS

- The enteric-coated tablets are initially tested for disintegration in which media**
 - Simulated gastric fluid
 - Simulated intestinal fluid
 - Purified water
 - Phosphate buffer (pH 6-8)
- Which of the following excipient is not used in chewable tablets**
 - Diluent
 - Flavouring agent
 - Disintegrant
 - Sweetening agent
- The function of cam tracks in tableting machine is to**
 - Feed the granules
 - Guide the movement of punches
 - Compress the granules
 - Fix the shape of tablets
- The capping of tablets can be prevented by**
 - Pre-compression
 - Reducing the final compression rate
 - Using the flat punches
 - All of these
- The Maillard reaction is due to the reaction of amine drugs with ___ used in tablets**
 - Disintegrant
 - Binder
 - Diluent
 - Glidant
- The deformity in _____ of the tablet is called as mottling**
 - Shape
 - Flavour
 - Thickness
 - Colour
- The elasticity of soft gelatin capsule shells can be controlled by adding**
 - Povidone
 - Lactose
 - Sorbitol
 - Sorbic acid
- Sulfur dioxide (0.15%) is used in the manufacturing of hard gelatin capsules to**
 - Impart strength to capsules
 - Improve flexibility of capsule shell
 - Opacify the shell
 - Prevent decomposition
- Identify the rate limiting step in the absorption of drugs from orally administered solution dosage forms.**
 - Gastric emptying
 - Dissolution
 - Disintegration
 - All of these
- The large volume of distribution (V_d) of the drug indicates that it**
 - Is not bioavailable
 - Is ineffective
 - Has short half-life
 - Is accumulated in various tissues and organs
- The pKa of drug X is 4.2. It means that at pH of 4.2 the drug X will be**
 - 90% unionized
 - 50% ionized
 - 10% ionized
 - 100% unionized
- The units of area under plasma concentration vs time curve are**
 - mg/cm/min
 - cm²
 - mg/ml/min
 - cm²/min
- Limulus amoebocyte lysate test is used for testing**
 - Pyrogenicity
 - Clarity
 - Isotonicity
 - Sterility
- The base adsorption is used for determining the**
 - Amount of liquid absorbed by the drug
 - Minimum capsule size
 - Flow properties of capsule contents
 - Suppository size



40. Cell was discovered by

- (a) Leeuwenhoek (b) Robert Hooke
(c) Robert Swanson (d) Robert Brown

41. ABCs of basic life support are

- (a) Airway, Bridge, Canal
(b) Airway, Breathing, Circulation
(c) Action, Breathing, Circulation
(d) None of the above

42. An efficient dressing should be

- (a) With germ (b) Germ-free
(c) Oily (d) Moist

43. The aim of first aid is to

- (a) Preserve life and limbs
(b) Limit further injuries
(c) Promote recovery
(d) All of these

44. HIV belongs to which of the of following genus members virus

- (a) Rotavirus (b) Retrovirus
(c) Parvovirus (d) Reovirus

45. What is sex ratio

- (a) The number of females per thousand male
(b) The number of females per hundred male
(c) The study of population growth
(d) The difference between birthrate and death rate

46. Name the State having the highest percentage of literacy level

- (a) Kerala (b) Maharashtra
(c) Punjab (d) West Bengal

47. The number of people in different age groups is referred as

- (a) Sex ratio
(b) Age composition
(c) Adolescent population
(d) Occupational structure

48. Water-soluble vitamin is

- (a) Vitamin A (b) Vitamin E
(c) Vitamin D (d) Vitamin B

49. Which vitamin is abundant in citrus fruits

- (a) Vitamin A (b) Vitamin C
(c) Vitamin D (d) Vitamin B

50. Pepsin converts

- (a) Starch to glucose
(b) Fat to fatty acid
(c) Carbohydrate to glucose
(d) Protein to amino acid

PHARMACOLOGY**1. The study of mechanism of action of drug and pharmacological effects of drug on the human body is known as**

- (a) Pharmacokinetics (b) Toxicology
(c) Pharmacology (d) Pharmacodynamics

2. Drugs are not excreted from the body through

- (a) Kidney
(b) Breast milk, saliva, sweat and bile
(c) Intestine
(d) Heart

3. Putting a drug in liquid form into a body cavity is known as

- (a) Inhalation (b) Instillation
(c) Insertion (d) Insufflation

4. When a drug is administered through the layers of skin into areolar tissue, this is known as

- (a) Intradermal administration
(b) Intra-arterial administration
(c) Subcutaneous administration
(d) Intramuscular administration

5. A drug that relieves itching is

- (a) Antiseptic (b) Antipruritic
(c) Anti-infective (d) Anti-inflammatory

6. 5% glucose saline means

- (a) Each 100 ml contains 5 gm glucose and 5 gm sodium chloride
(b) Each 100 ml contains 5 gm glucose and 0.9 gm sodium chloride
(c) Each 100 ml contains 5 gm glucose and 0.4 gm sodium chloride
(d) Each 100 ml contains 0.5 gm glucose and 0.9 gm sodium chloride

7. 5% dextrose in normal saline (NS) is

- (a) Isotonic fluid (b) Hypotonic fluid
(c) Hypertonic fluid (d) None of these

8. In the following, which fluid solution is an isotonic solution

- (a) Ringer's lactate solution (RL)
(b) 0.45% sodium chloride solution
(c) Normal saline (NS) solution
(d) Ringer's lactate solution (RL) and Normal saline (NS) solution

MEDICINAL CHEMISTRY

1-c	2-c	3-a	4-c	5-b	6-c	7-c	8-c	9-d	10-b
11-c	12-c	13-d	14-a	15-b	16-d	17-a	18-a	19-a	20-b
21-d	22-c	23-b	24-c	25-c	26-c	27-b	28-c	29-a	30-d
31-a	32-a	33-b	34-d	35-a	36-d	37-c	38-d	39-a	40-c
41-c	42-d	43-d	44-c	45-a	46-b	47-d	48-b	49-b	50-b

PHARMACOGNOSY

1-a	2-d	3-d	4-a	5-a	6-d	7-a	8-b	9-a	10-c
11-c	12-c	13-b	14-d	15-d	16-b	17-d	18-a	19-b	20-c
21-c	22-a	23-a	24-a	25-d	26-d	27-c	28-b	29-d	30-b
31-c	32-a	33-c	34-a	35-a	36-b	37-b	38-c	39-b	40-b
41-c	42-a	43-c	44-a	45-b	46-a	47-a	48-c	49-b	50-a

HUMAN ANATOMY AND PHYSIOLOGY

1-d	2-a	3-b	4-d	5-c	6-a	7-d	8-c	9-a	10-d
11-b	12-b	13-c	14-b	15-c	16-a	17-a	18-a	19-a	20-a
21-b	22-a	23-a	24-b	25-a	26-b	27-a	28-c	29-a	30-d
31-c	32-c	33-d	34-d	35-a	36-c	37-d	38-c	39-b	40-b
41-b	42-b	43-d	44-b	45-a	46-a	47-b	48-d	49-b	50-d

PHARMACOLOGY

1-d	2-d	3-b	4-c	5-b	6-b	7-a	8-d	9-a	10-b
11-c	12-a	13-c	14-c	15-c	16-c	17-d	18-b	19-c	20-b
21-d	22-d	23-a	24-d	25-d	26-d	27-d	28-a	29-d	30-a
31-a	32-c	33-d	34-d	35-c	36-c	37-b	38-a	39-c	40-b
41-a	42-c	43-d	44-c	45-b	46-c	47-d	48-a	49-b	50-c

PHARMACEUTICAL JURISPRUDENCE

1-b	2-c	3-a	4-d	5-a	6-a	7-b	8-d	9-a	10-d
11-b	12-a	13-d	14-c	15-a	16-c	17-a	18-c	19-c	20-a
21-a	22-c	23-b	24-c	25-b	26-c	27-b	28-d	29-c	30-a
31-d	32-c	33-b	34-d	35-c	36-b	37-c	38-d	39-a	40-d
41-b	42-a	43-c	44-b	45-d	46-c	47-a	48-d	49-b	50-a

MICROBIOLOGY

1-b	2-b	3-a	4-d	5-c	6-a	7-d	8-c	9-a	10-d
11-a	12-b	13-b	14-c	15-c	16-a	17-c	18-d	19-d	20-a
21-b	22-b	23-a	24-a	25-c	26-d	27-b	28-c	29-b	30-d
31-d	32-c	33-b	34-c	35-c	36-b	37-d	38-d	39-c	40-a
41-c	42-a	43-b	44-d	45-d	46-a	47-a	48-b	49-c	50-c

MP DRUG INSPECTOR-2022

SCAN ME

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Online Test

- Young's modulus is a type of**
 - Pseudo modulus
 - Bingham modulus
 - Plastic modulus
 - Elastic modulus
- Fill in the blank with the correct option. Zeta potential determination is a significant characterization technique of nanocrystals employed for understanding the stability of nanosuspensions**
 - Chemical
 - Physical
 - Organic
 - Inorganic
- What is the correct sequence of steps involved in the herbal drug production**
 - Identification, cultivation, collection, processing, authentication
 - Authentication, cultivation, collection, processing, identification
 - Identification, authentication, cultivation, collection, processing
 - Cultivation, collection, processing, authentication, identification
- Which method is appropriate for analysing data when there are two or more measurements of each observations and the variables are to be analysed simultaneously**
 - Linear regression analysis
 - Multivariate analysis
 - Two-way ANOVA
 - Correlation analysis
- Which immunoglobulin is the first one to be produced during an immune response**
 - Immunoglobulin E
 - Immunoglobulin A
 - Immunoglobulin M
 - Immunoglobulin G
- Which of the following does not increase Digoxin toxicity**
 - Hyperkalemia
 - Renal impairment
 - Hypercalcemia
 - Hypomagnesemia
- Which of the following is determined in saponification value**
 - Chloride
 - NaCl
 - Oxygen
 - KOH
- Pisiform bone is found in which of the following joint**
 - Sternoclavicular joint
 - Ankle joint
 - Wrist joint
 - Shoulder joint
- What are the reasons that dry granulation method of tablet preparation is becoming more popular than other methods**
 - No reaction due to heat or moisture
 - Low cost of equipment handling
 - Ability to produce uniform tablets in composition
- The computer language HTML is**
 - Cannot ignore small errors
 - Case sensitive
 - Not static
 - Does not preserve white tags
- What is the quantity of dextrose required to prepare a solution isotonic with blood plasma. The molecular weight of dextrose is 180 and it is non-ionizing**
 - 8.5 grams
 - 10.2 grams
 - 5.4 grams
 - 5 grams
- What is the name of the process by which benzene molecule is stabilized**
 - Reflection
 - Resonance
 - Refraction
 - Retraction
- What is the formula of partition coefficient to represent the lipophilicity of an organic compound if A is the concentration of unionized compound**
 - $\log P = 1/\{A\}_{\text{aqueous}}$
 - $\log P = \{A\}_{\text{organic}} / \{A\}_{\text{aqueous}}$
 - $\log P = \{A\}_{\text{organic}} / \{A\}_{\text{aqueous}}$
 - $\log P = 1/\{A\}_{\text{organic}}$

The code for "Find ball under the tree" is "ble fop bhu yug tib."

'nhyzde rub db ble tib' is the code for the phrase "under one ball try to score."

Where can I find the "beat the ball score" code

- (a) qsp tib bhu rub
- (b) rnu fop ble rub
- (c) kir fop ble bhu
- (d) qsp fop ble rub

162. 'TEACHER' is represented by the code VGCEJGT in some languages. How does that code translate to "CHILDREN"

- (a) EJKNFTGP
- (b) EJKNTFPG
- (c) PEJKNTFJ
- (d) EJKNTFPG

163. In the following question, select the related number from the given alternatives

12 : 62 :: 14 : ?

- (a) 70
- (b) 75
- (c) 72
- (d) 80

164. In the following figure, enter the omitted number in place of question mark (?)

?	25200
600	120

- (a) 3600
- (b) 1800
- (c) 5000
- (d) 5400

165. Rishabh walks a certain distance, say X m, from his Office towards the west. Then he turns left and walks 46 m. After that, he turns left and walks 72 m. Then he turns left again to walk 46 m. He finally turns left and walks 36 m to reach his Office. Find the value of X

- (a) 40 m
- (b) 82 m
- (c) 44 m
- (d) 36 m

166. Find the missing letter in the series

AAZ, BCT, DEN, ____ ?

- (a) GGT
- (b) GGH
- (c) KIB
- (d) GGJ

167. How would STATION be described in that code if SENSATIONAL may be outlined as 1 2 3 1456734

- (a) 1574683
- (b) 1545667
- (c) 1545673
- (d) 1545657

168. Read the given pattern carefully and select the number which can replace the question mark (?) in it

4	11	19
5	6	0
9	13	3
18	?	22

- (a) 65
- (b) 45
- (c) 30
- (d) 25

169. Ziya is seated seventh from the bottom in a class of 35 kids, whereas Sofia is seated ninth from the top. Shah stands between Ziya and Sofia. How many places away is Ziya from Shah

- (a) 10 places away
- (b) 9 places away
- (c) 8 places away
- (d) 15 places away

170. Find the missing letters in the following series Z, D, X, G, V, J, T, M, ...? ...?

- (a) F, K
- (b) H, N
- (c) X, P
- (d) R, P

171. In a queue, Mr. X is 14th from the front and Mr. Y is 17th from the end. While Mr. Z is exactly in between both. How many people are between Mr. X and Mr. Z if Mr. X is in front of Mr. Y and there are 48 people in line

- (a) 7
- (b) 9
- (c) 8
- (d) 6

172. A man can row a boat in still water at a speed of 8 km per hour, if the speed of the river is 2 km per hour, he takes 80 minutes to go to a place and return, then what is the distance of the place

- (a) 2.20 km
- (b) 2.81 km
- (c) 3.56 km
- (d) 4.34 km

173. Three years ago, the value of my pen was Rs. 675. If the value of profit increases by 5% every year, now its value (in rupees) is

- (a) 715.31
- (b) 781.39
- (c) 854.35
- (d) 698.32

174. A train travelling at an average speed of 80 km per hour reaches its destination on time, if it travels at an average speed of 40 km per hour it is late by 20 minutes. What is the distance of the whole journey

- (a) 28.5 km
- (b) 25.5 km
- (c) 24.5 km
- (d) 26.6 km

175. Evaluate the following expression

$$1 + \frac{1}{2 + \frac{1}{3 + \frac{1}{4}}} + \frac{5}{6 + \frac{1}{7 + \frac{1}{8}}}$$

- (a) $\frac{2886}{7779}$
- (b) $\frac{5978}{3254}$
- (c) $\frac{1205}{1347}$
- (d) $\frac{4551}{3010}$

ASSAM DRUG INSPECTOR-2022

SCAN ME

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Online Test

1. **Proton pump inhibitors act through**
 - (a) Reduced absorption of pectin
 - (b) Altered gastric pH
 - (c) Coating gastric mucosa
 - (d) All of these
2. **Special test for Syphilis is**
 - (a) VDRL test
 - (b) FAT test
 - (c) ELISA test
 - (d) None of these
3. **Nitrofurantoin contains**
 - (a) Furan ring
 - (b) Nitro group
 - (c) Imidazole ring
 - (d) All of these
4. **Which of the following molecule antagonizes the antihypertensive effect of diuretics**
 - (a) Aspirin
 - (b) Indomethacin
 - (c) Statin
 - (d) Quinidine
5. **The number of waves passing a point per second is**
 - (a) Power
 - (b) Wave number
 - (c) Wavelength
 - (d) Frequency
6. **Which of the following indicator is used in Complexometric titration**
 - (a) Crystal Violet
 - (b) Murexide
 - (c) Eosin
 - (d) Methyl Orange
7. **Papaverine is**
 - (a) Weakanaleptic
 - (b) Vasodilator
 - (c) Antineoplastic
 - (d) Central Vasoconstrictor
8. **Drug administered through the following route is most likely to be subjected to first pass metabolism**
 - (a) Sublingual
 - (b) Subcutaneous
 - (c) Oral
 - (d) Rectal
9. **Which one of the following ingredients improves the flow property of granules**
 - (a) Glidant
 - (b) Emollient
 - (c) Diluent
 - (d) Surfactant
10. **Which of the molecule reduces the renal clearance of Methotrexate leading to Methotrexate toxicity**
 - (a) Proton pump inhibitor
 - (b) Salicylate
 - (c) Furosemide
 - (d) All of these
11. **Schick test is performed to ascertain susceptibility to**
 - (a) Tetanus
 - (b) Syphilis
 - (b) Mumps
 - (d) Diphtheria
12. **Hyperkalemia is seen with the ingestion of following drugs EXCEPT**
 - (a) ACE inhibitors
 - (b) Spironolactone
 - (c) Calcium channel blockers
 - (d) Eplerenone
13. **Gas chromatography technique can be used for**
 - (a) Qualitative analysis only
 - (b) Quantitative analysis only
 - (c) Both (a) and (b)
 - (d) None of these
14. **Drug used in Leprosy is**
 - (a) Physostigmine
 - (b) Dapsone
 - (c) Biperiden
 - (d) Selegiline
15. **The tear secretion contains an antibacterial enzyme known as**
 - (a) Zymase
 - (b) Diastase
 - (c) Lysozyme
 - (d) Lipase
16. **Which one of the following device is used to increase the efficiency of drug delivery via aerosols**
 - (a) Tube spacers
 - (b) Metered valve
 - (c) Actuator
 - (d) Pressure valve
17. **Select the equation that gives the rate of drug dissolution from a tablet**
 - (a) Fick's law
 - (b) Henderson-Hasselbalch equation
 - (c) Noyes-Whitney equation
 - (d) Michaelis-Menten equation

HP DRUG INSPECTOR-2021

SCAN ME

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Online Test

- The particle size of colloidal dispersion is**
 - 1 nm to 0.5 μm
 - Less than 1 nm
 - Greater than 0.5 μm
 - None of these
- Identify the complex which belongs to the category of inclusion type**
 - Clathrates
 - Chelates
 - Sandwich compounds
 - Pi complexes
- In the Gram staining iodine is used**
 - To stain Gram positive bacteria
 - To stain gram negative bacteria
 - As mordant
 - None of these
- Identify the D value of *B. pumilus* under irradiation sterilization protocol**
 - 3 kGy
 - 15 min
 - 5 min
 - 12 kGy
- The minute molecules that elicit an immune response only when attached to a large carrier such as a protein are known as**
 - Proimmune
 - Hapten
 - Antigen
 - All of these
- List of drugs exempted from the provision of import of drugs is described in**
 - Schedule E
 - Schedule D
 - Schedule A
 - Schedule J
- Identify the Chairman of Central Insecticides Board (Established Under Section 4 of the Insecticides Act, 1968)**
 - Director General of Health Services
 - Director General, Indian Council of Agricultural Research
 - Plant Protection Adviser to the Government of India
 - Director, National Institute of Communicable Diseases
- A rule for evaluating the dosage of medicine for a child by adding 12 to the child's age, and dividing the sum by the age of the child, then dividing the adult dose by the result obtained is known as**
 - Nomogram Method
 - Young's rule
 - Fried's Rule
 - Clark's rule
- Identify the incompatibility present in the following prescription**

R_x
Benzalkonium chloride
Sodium lauryl sulfate

 - Physical incompatibility
 - Chemical incompatibility
 - Pharmacodynamic incompatibility
 - Pharmacokinetic incompatibility
- Identify the instrument used for moist heat sterilization**
 - Hot air oven
 - Glass bead sterilizer
 - Autoclave
 - All of these
- The study in real conditions and on large populations, of use, effectiveness and risk of drugs is known as**
 - Pharmacoeconomics
 - Pharmacoepidemiology
 - Pharmacovigilance
 - Both (b) and (c)
- Which one of the size reduction apparatus works based on the principle of impact and attrition**
 - Ball Mill
 - Roller Mill
 - Hammer Mill
 - All of these
- Identify the industrial filter**
 - Filter press
 - Rotary filter
 - Edge filter
 - All of these
- Identify the capsule of smallest size**
 - 5
 - 1
 - 3
 - 000

GUJARAT DRUG INSPECTOR-2021

SCAN ME

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Online Test

- Which of the following is not the fundamental dimension of matter**
(a) Length (b) Mass
(c) Time (d) Area
- The disadvantage of Sieving method used for size distribution analysis of powder is**
(a) Agglomerates can be identified
(b) Attrition of powder is possible
(c) Large number of sieves are required
(d) Tedious and time consuming
- Hausner ratio is**
(a) Tapped density/Bulk density
(b) Bulk density/Tapped density
(c) Bulk volume/Void volume
(d) Void volume/Bulk volume
- The term micromeritics was given by**
(a) J.M. Dalla Valle
(b) James Kelvin
(c) William Procter
(d) Mahadeva Lal Schroff
- The distance between two tangents on opposite side of the particle parallel to some fixed direction is called**
(a) Stoke's diameter (b) Martin diameter
(c) Projected diameter (d) Ferets diameter
- The cleaning action of soaps and detergents is due to**
(a) Internal friction
(b) High hydrogen bonding
(c) Surface tension
(d) Viscosity
- Brookfield viscometer is an example of type of viscometer**
(a) Cone and plate (b) Extrusion
(c) Rotation sphere (d) Rotating spindle
- Separation of concentrated emulsion from the emulsion is termed as**
(a) Breaking (b) Creaming
(c) Coalescence (d) Caking
- Andreasen apparatus is used for the determination of particle size of a powder using**
(a) Sedimentation method
(b) Elutriation method
(c) Sieving method
(d) Coulter current technique
- Surfactants with HLB value 6 and above are**
(a) Detergents
(b) Solubilizing agents
(c) Anti-foaming agents
(d) Wetting agents
- Vanishing cream is an example of**
(a) o/w (b) w/o
(c) w/o/w (d) Microemulsion
- Which of the following statement(s) is/are correct regarding suppository bases**
(a) Maintain shape
(b) Help in insertion into the body cavity
(c) Theobroma oil is an example of base
(d) All of these
- Which is NOT direct compressible diluents used for tablet manufacturing**
(a) Sta Rx 500 (b) Emdex
(c) Celutab (d) Mannitol
- Which of the following is used to fill powdered dry solid into soft gelatin capsule**
(a) Accogel (b) Rotobil
(c) Rotosort (d) Rotoweigh
- Flash point test is performed for**
(a) Parenteral (b) Capsule
(c) Aerosol (d) Sustained release
- Dose dumping is a problem with the formulation of**
(a) Compressed tablets
(b) Suppository
(c) Soft gelatin capsules
(d) Controlled release drug products

GOA DRUG INSPECTOR-2020

SCAN ME



To Join FREE
Online Test

1. **Punishment for illegal possession in small quantity for personal consumption of cocaine, morphine, diacetyl-morphine or any other narcotic drug or any psychotropic substance as may be specified in this behalf by the Central Government, by notification in the Official Gazette is**
 - (a) Imprisonment for a term which may extend to one year or with fine or with both
 - (b) Imprisonment for a term which may extend to three years or with fine or with both
 - (c) Rigorous imprisonment for a term which shall not be less than ten years but which may extend to twenty years and shall also be liable to fine which shall not be less than one lakh rupees but which may extend to two lakh rupees
 - (d) Rigorous imprisonment for a term, which may extend to ten years and shall also be liable to fine, which may extend to one lakh rupees
2. **Retail price of a formulation can be calculated using the formula**
 - (a) $R.P = (M.C. - C.C. + P.M. + P.C.) \times (1 + MAPE/100) + E.D.$
 - (b) $R.P = (M.C. + C.C. - P.M. + P.C.) \times (1 + MAPE/100) + E.D.$
 - (c) $R.P = (M.C. + C.C. + P.M. - P.C.) \times (1 + MAPE/100) + E.D.$
 - (d) $R.P = (M.C. + C.C. + P.M. + P.C.) \times (1 + MAPE/100) + E.D.$
3. **As per Drugs and Cosmetics Act Prescription Drugs are included in**
 - (a) Schedule C
 - (b) Schedule H
 - (c) Schedule P
 - (d) Schedule X
4. **Schedule W to the Drug Rules refers to**
 - (a) List of prescription drugs
 - (b) List of drugs which are to be marketed under generic names only
 - (c) List of drugs exempted from import of drugs
 - (d) Standards for patent or proprietary medicines
5. **The list of narcotic drugs and psychotropic substances that are prohibited from import into and export from India is found in**
 - (a) Schedule I
 - (b) Schedule II
 - (c) Schedule III
 - (d) Schedule IV
6. **Form 2, under Schedule A refers to**
 - (a) Memorandum to the Central Drugs Laboratory
 - (b) Application for license to import drugs specified in Schedule X to the drugs and Cosmetics Rules 1945
 - (c) Form of undertaking to accompany an application for an import license
 - (d) Certificate of test or analysis by the Central Drugs Laboratory
7. **Schedule L1 refers to**
 - (a) Good manufacturing practices
 - (b) Good laboratory practices
 - (c) GMP-Homeo medicines
 - (d) Factory medical devices
8. **Cultivation of poppy seeds is taken only in the areas notified by the Central government in three states of**
 - (a) Rajasthan, Gujarat and Uttar Pradesh
 - (b) Rajasthan, Madhya Pradesh and Uttar Pradesh
 - (c) Rajasthan, Himachal Pradesh and Uttar Pradesh
 - (d) Rajasthan, West Bengal and Uttar Pradesh
9. **As per DPCO 2013, MRP of a scheduled formulation is "Ceiling price + Local Taxes applicable" whereas the MRP for a new drug will be**
 - (a) Retail price fixed by Manufacturer + Local Taxes applicable
 - (b) Retail price fixed by Govt + Local Taxes applicable
 - (c) Retail price fixed by Distributor + Local Taxes applicable
 - (d) Retail price fixed by Retailer + Local Taxes applicable

HARYANA DRUG INSPECTOR-2019

SCAN ME

To Join FREE
Online Test

- Which one of the following families is known for presence of volatile oils in trichomes**
(a) Lauraceae (b) Loganiaceae
(c) Labiatae (d) Leguminosae
- Listed below are the chemical tests used to identify a group of phytoconstituents. Identify the test for the detection of the purine alkaloids**
(a) Keller-Kiliani Test (b) Murexide Test
(c) Shinoda Test (d) Vitali-Morin Test
- Atropine biosynthesis involves a pair of precursors. Identify the correct pair**
(a) Ornithine and phenylalanine
(b) Tyrosine and Tryptophan
(c) Tryptophan and Dopamine
(d) Tyrosine and Dopamine
- What is Chemotaxis**
(a) Toxicity of chemicals
(b) Taxonomy of chemicals
(c) Inhibition of inflammation
(d) Movement of leukocytes in inflammation
- Which one of the following antihistaminic agents causes serious cardiac dysrhythmias**
(a) Fexofenadine (b) Terfenadine
(c) Cetirizine (d) Loratadine
- Which one of the following is an oral anticoagulant**
(a) Heparin (b) Warfarin
(c) Lepirudin (d) Melagatran
- Following is an example of the long acting bronchodilator**
(a) Salmeterol (b) Salbutamol
(c) Sotalol (d) Montelukast
- Following is an example of anti-emetic drug acting on 5-HT₃ receptors**
(a) Nabilone (b) Ondansetron
(c) Metoclopramide (d) Domperidone
- The combination of Mifepristone and Gemeprost is used for**
(a) Endometriosis
(b) Endometrial carcinoma
(c) Medical termination of pregnancy
(d) Breast carcinoma
- Rifampicin an anti-mycobacterial agent acts on**
(a) DNA dependent DNA polymerase
(b) RNA dependent DNA polymerase
(c) DNA dependent RNA polymerase
(d) RNA dependent RNA polymerase
- An anti-schizophrenic agent having no extra-pyramidal side effects is**
(a) Haloperidol (b) Olanzapine
(c) Thioxanthenes (d) Pimozide
- Which one of the following types of the glass containers should be used for packaging of human blood and blood components**
(a) Type I (b) Type II
(c) Type III (d) Type IV
- Which one of the followings is the commonly used bulking agent in the formulation of freeze dried low dose drug products**
(a) Sodium chloride (b) Mannitol
(c) Gelatin (d) HPMC
- The administration of Enteric coated products in elderly patients in some cases is not recommended because**
(a) Decrease in gastric secretion has been noted in elderly patients
(b) Intestinal blood flow is reduced in elderly patients
(c) Active absorption is reduced in elderly patients
(d) Gastric emptying rate is increased in elderly patients
- Which one of the following properties is desirable in liquid formulations**
(a) Thixotropy (b) Dilatancy
(c) Syneresis (d) Tackiness

TAMIL NADU DRUG INSPECTOR-2019

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1. **Uses of 'Fuses' with less capacity prevents**
 - (a) Mechanical hazard
 - (b) Chemical hazard
 - (c) Electrical hazard
 - (d) Dust hazard
2. **The following tests are usually performed for rubber closure EXCEPT**
 - (a) Test for penetrability
 - (b) Extractive test
 - (c) Fragmentation test
 - (d) Dissolution test
3. **Flow property of a drug can be determined by measurement of**
 - (a) Its angle of repose
 - (b) Its partition coefficient
 - (c) Its solubility
 - (d) Its dissociation constant
4. **The Henderson Hasselbach equation is useful determination of**
 - (a) pKa of a drug (dissociation constant of a drug)
 - (b) Melting point of a drug
 - (c) Boiling point of a drug
 - (d) Amount of drug in a dosage form
5. **Pre-formulation studies involve**
 - (a) Development of suitable dosage form for a drug
 - (b) Determination of pharmacological action of a drug
 - (c) Determination of molecular structure of a drug
 - (d) Determination of adverse drug reaction
6. **The sweetening agent commonly used in chewable tablet is**
 - (a) Sucrose
 - (b) Honey
 - (c) Mannitol
 - (d) Saccharine
7. **The maximum absorption is shifted to longer wavelengths, is**
 - (a) Bathochromic shift
 - (b) Hyperchromic shift
 - (c) Hypsochromic shift
 - (d) Hypochromic shift
8. **In India GMP guidelines for manufacture of sterile products is given in**
 - (a) Schedule M of Drugs and Cosmetics act 1940
 - (b) Schedule M I of Drugs and Cosmetics act 1940
 - (c) Schedule M II of Drugs and Cosmetics act 1940
 - (d) Schedule M III of Drugs and Cosmetics act 1940
9. **The following test are used for evaluation of parenteral EXCEPT**
 - (a) Sterility test
 - (b) Friability test
 - (c) Pyrogen test
 - (d) Clarity test
10. **As per I.P. all blood products should pass**
 - (a) The test for sterility
 - (b) Legal test
 - (c) Benedict's test
 - (d) Molisch test
11. **Choose the correct statement**
 - (a) Plasma substitutes should have viscosity similar to that of plasma
 - (b) Plasma substitutes should be immunogenic
 - (c) Plasma substitutes must be colourless
 - (d) Plasma substitutes must be retained by the human body
12. **Which of the following influences the drug distribution in the body**
 - (a) Protein binding capacity of the drug
 - (b) Weight of the individual
 - (c) First pass metabolism of the drug
 - (d) "Solubility" of the drug
13. **Which of the following parameter are evaluated by comparing curves of serum concentration versus time**
 - (a) Peak concentration, biological half-life and elimination rate constant
 - (b) Biological half-life, t_{max} and absorption rate constant
 - (c) Peak concentration, t_{max} the curve and total area under
 - (d) Adsorption rate constant, area under the curve and elimination rate constant
14. **The time period for which the plasma concentration of drug remains above minimum therapeutic level is known as**
 - (a) Duration of action
 - (b) Intensity action
 - (c) Maximum action time
 - (d) Termination of action

200. Mercury poisoning can be treated with

- (a) Desferrioxamine (b) Trientine
(c) Deferiprone (d) Dimercaprol

NON-PHARMA QUESTIONS**1. In a single throw of a die, the probability of getting a multiple of 3 is**

- (a) 1/2 (b) 1/3
(c) 1/6 (d) 2/3

2. The product of two consecutive numbers is 4032. Find the numbers

- (a) 61,62 (b) 63,64
(c) 64,65 (d) 62,63

3. Two equal sums of money were lent at simple interest at 11% p.a. for 3(1/2) years and 4(1/2) years respectively. If the difference in interests for two periods was 412,50 then each sum is

- (a) 3,250 (b) 3,500
(c) 3,750 (d) 4,250

4. Calculate the mode of the following data

Size of shows	4 5 6 7 8 9 10
No. of papers	15 17 13 21 18 16 11

- (a) 9 (b) 8
(c) 7 (d) 5

5. Find the approximate length of the longest pole that can be put in a room 10 m × 8 m × 5 m

- (a) 15.25 m (b) 13.75 m
(c) 14.35 m (d) 12.55 m

6. In a well shuffled pack of 52 cards, a card is drawn at random, find the probability of diamond or kind card

- (a) 4/13 (b) 5/13
(c) 6/13 (d) 9/13

7. January 1, 2009 was a Thursday. What day of the week lies on Jan 1, 2010

- (a) Thursday (b) Wednesday
(c) Friday (d) Saturday

8. A bag contains one rupee, 50-paise and 25 paise coins in the ratio 5 : 6 : 7. If the total amount is 390, find the number of coins of each kind

- (a) 200, 280, 240 (b) 240, 200, 280
(c) 200, 240, 280 (d) 280, 240, 200

9. If $a^2 + b^2 = 117$ and $ab = 54$, then find the value of $a + b/a - b$

- (a) 5 (b) 12/3
(c) 7 (d) 11/3

10. A man riding a bicycle, completes one lap of a circular field along its circumference at the speed of 14.4 km/h in 1 hr 28 sec. What is the area of the field

- (a) 7958 sq. m. (b) 9856 sq. m.
(c) 8842 sq. m. (d) None of these

11. A speed of 54 km/hr is the same as

- (a) 13.5 m/sec. (b) 15 m/sec.
(c) 21 m/sec. (d) 27 m/sec.

12. A constable is 114 m behind a thief. The constable runs 21m and the thief 15m in a minute. In what time will the constable catch the thief

- (a) 16 min. (b) 18 min.
(c) 17 min. (d) 19 min.

13. Name the Indian representative, who attended the International socialist conference held in Germany in 1907

- (a) Anne Besant (b) Madam Cama
(c) Ajit Singh (d) Gopal Singh

14. Who established the Indian Home rule society in London in 1905

- (a) V.D. Savarkar
(b) Bhupendra Nath Datta
(c) Shyamji Krishna varma
(d) V.V.S. Aiyar

15. Vivekananda founded the Ramakrishna mission in _____

- (a) 1898 A.D. (b) 1897 A.D.
(c) 1858 A.D. (d) 1859 A.D.

16. The popular greeting word 'Jai Hind' was introduced by whom

- (a) Subash Chandra Bose
(b) Mahatma Gandhi
(c) Vivekananda
(d) Aurobindo Ghosh

17. Which one of the following rivers is shortest in length

- (a) Chambal (b) Damodar
(c) The son (d) Kaveri

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- A non-volatile, highly lipid soluble drug is metabolized at a rate of 15% per hour. On intravenous injection, it produces general anaesthesia for 10 minutes. Which process is responsible for termination of its action
 - Metabolism in liver
 - Excretion by kidney
 - Plasma Protein Binding
 - Redistribution
- Aspirin overdose is characterized by
 - Hyperthermia, metabolic acidosis and coma
 - Fever, hepatic dysfunction and encephalopathy
 - Rash, interstitial nephritis and acute renal failure
 - Rapid, fulminant hepatic failure
- A 40-year-old patient complains of severe pain along left side of jaw and face. The best choice for this neuralgic pain is
 - Methadone
 - Tramadol
 - Lorazepam
 - Carbamazepine
- The first Phenothiazine derivative introduced into the therapy of psychotic disorders was
 - Promazine
 - Chlorpromazine
 - Triflupromazine
 - Thioridazine
- Which one of the following is NOT a rapid acting insulin
 - Insulin lispro
 - Insulin aspart
 - Insulin glulisine
 - Insulin glargine
- Which one of the cardiac aglycones contains an aldehydic group in its structure
 - Scillaren A
 - Digitoxigenin
 - Digoxigenin
 - Strophanthidin
- Which one of the following is the only life saving measure in case of anaphylactic shock
 - Intravenous Hydrocortisone
 - Intravenous Adrenaline
 - Intravenous Chlorpheniramine maleate
 - Intravenous Glucose-saline
- Which one of the following drugs used in the treatment of diabetes does NOT contain heterocyclic nucleus
 - Glyburide
 - Glimepiride
 - Repaglinide
 - Glipizide
- An amino acid which gives a yellow precipitate in the Xanthoproteic reaction is
 - Glycine
 - Alanine
 - Tyrosine
 - Leucine
- Which one of the following drugs causes physiological dependence only
 - Cocaine
 - Morphine
 - Alcohol
 - Nalorphine
- Which one of the following non-depolarizing blockers can be used as alternative to Succinylcholine for tracheal intubation without the disadvantage of depolarizing block and cardiovascular changes
 - Doxacurium
 - Atracurium
 - Rocuronium
 - Pancuronium
- Homatropine is a
 - Tropine ester of mandelic acid
 - Tropine ester of amino acetic acid
 - Tropine ester of amino formic acid
 - Tropine methyl bromide ester of Mandelic acid
- Consider the following statements regarding Glycyrrhizin
 - It is a bioactive constituent of *Glycyrrhiza glabra*
 - It interacts with CYP3A12
 - It has a higher interaction potential with CYP2D6 compared with CYP3A4
 - It causes sweetness of Liquorice
 Which of the statement given above is/are correct
 - 1, 2 and 3
 - 1, 3 and 4
 - 1, 2 and 4
 - 2, 3 and 4

MEGHALAYA DRUG INSPECTOR-2019

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- In Utilization of finance, the Fixed Capital in invested on which of the following**
 - Purchase of raw Material
 - Wages and Rent
 - Plant and Machinery
 - Taxes and Internet
- Blood group antigen belong to which of the following classes of protein**
 - Chromoproteins
 - Lipoprotein
 - Glycoprotein
 - Nucleoprotein
- Which of the following enzymes is markedly increase in "Obstructive Livers Disease"**
 - Creatine kinase
 - Alanine Amino transferase
 - Alkaline phosphatase
 - Aspartate Aminotransferase
- Which of the following is primary site of action of local anaesthetic**
 - Mitochondria
 - Cell Membrane
 - Cytoplasm
 - Nucleus
- Which of the following in an example of aromatic amino acid**
 - Asparagine
 - Threonine
 - Glutamine
 - Tyrosine
- How many coccygeal vertebrae fuse to form coccyx bone**
 - 4
 - 6
 - 8
 - 2
- Conjunctival xerosis occur due to deficiency of which of the following vitamin**
 - Vitamin A
 - Vitamin H
 - Vitamin C
 - Vitamin K
- All statement below are true for Hepatitis H virus EXCEPT**
 - DNA virus
 - Antibody to surface antigen usually appear within two weeks of infection
 - The presence of antigen indicates increased infectivity
 - A recognized cause of liver cancer
- Spiroinolactone is a pro-drug and its main active metabolite is**
 - Desmethyl Spiroinolactone
 - Acetyl Spiroinolactone
 - Canrenone
 - None of these
- Acetylcholine and physostigmine are example of which type of drug interactions**
 - Synergism
 - Addition
 - Potentiation
 - Antagonism
- Beta agonist used in bronchial asthma exert action by**
 - Blocking receptor
 - Blocking receptor
 - Stimulating receptor
 - Stimulating receptor
- Which hormone is released at all postganglionic sympathetic fiber**
 - Dopamine
 - Isoprenaline
 - Adrenaline
 - Acetylcholine
- Regulation of insulin secretion from beta cell is regulated by**
 - Chemical mechanism
 - Hormonal mechanism
 - Neural mechanism
 - All to these
- Parasympathomimetic drugs cause**
 - Bronchodilation
 - Mydriasis
 - Bradycardia
 - Constipation
- Chloroquine is used for treatment of malaria caused by**
 - P. ovale*
 - P. vivax*
 - P. malaria*
 - All of these

RAJASTHAN DRUG INSPECTOR-2018

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- Nernst equation is generally practice in**
 - Complexometric titration
 - Potentiometry
 - Polarimetry
 - Non-aqueous titration
- Match the following term used for explanation**

P. Red shift
Q. Auxochrome
R. Chromophore
S. Blue shift

 - Carbonyl group**
 - Increase in wave length of absorption**
 - Amino group**
 - Decrease wavelength absorption**
 - P-2, Q-1, R-4, S-3 (b) P-4, Q-2, R-3, S-1
 - P-3, Q-1, R-2, S-4 (d) P-2, Q-3, R-1, S-4
- The molar absorptivity's for peak associated with exciton to the π - π state generally ranged from**
 - 1000 to 10000 L cm⁻¹ mol⁻¹
 - 1000 to 500 L cm⁻¹ mol⁻¹
 - 100 to 10 L cm⁻¹ mol⁻¹
 - 200 to 400 L cm⁻¹ mol⁻¹
- Which is the correct order of increasing wave number of the stretching vibrations of**

(1) C-H (alkane) (2) O-H (alcohol)
(3) C=O (ketone) (4) C \equiv C (alkyne)

 - (4) < (3) < (1) < (2) (b) (4) < (3) < (2) < (1)
 - (3) < (4) < (2) < (1) (d) (3) < (4) < (1) < (2)
- Solochrome black indicator used in which type of titration**
 - Non aqueous titration
 - Acid base titration
 - Complexometric titration
 - Gravimetric analysis
- Aprotic solvents have**
 - Basic
 - Acidic
 - No acidic or basic
 - Both acidic and basic properties
- In Gas Chromatography, which detector is preferred when analysis of drugs contain halogens**
 - FID
 - TCD
 - ECD
 - PID
- The glass electrode used in pH measurement is**
 - A metal oxide electrode
 - Ion selective electrode
 - A membrane electrode
 - Plastic electrode
- In size exclusion chromatography of a mixture of molecules, which one will elute first**
 - The largest molecule
 - The smallest molecule
 - The most polar molecule
 - The most non polar molecule
- Iodine vapors for TLC are used to detect the**
 - Steroids
 - Carboxylic acids
 - Volatile compound
 - Unsaturated compound
- An example of strongly acidic cation exchange resin is**
 - Quarterly polymethacrylate
 - Phenol formaldehyde
 - Quarterly polystyrene
 - Sulphonated polystyrene
- Which method cannot useful for the bacterial endotoxin test**
 - Gel clot test method
 - Kinetic turbidimetric method
 - Titrimetric method
 - End point chromogenic method

ANDHRA PRADESH DRUG INSPECTOR-2018

SCAN ME

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1. All of the following are psychotropic substance, EXCEPT
 - (a) Amobarbital
 - (b) Meprobamate
 - (c) Barbital
 - (d) All of these
2. As per schedule P of Drugs and Cosmetics Act, the Diphtheria toxoid has expiry period of
 - (a) 6 months
 - (b) 12 months
 - (c) 2 years
 - (d) 5 years
3. Chloramphenicol comes under schedule
 - (a) G
 - (b) H
 - (c) W
 - (d) P
4. Example of Narcotic drug is
 - (a) Coca
 - (b) Opium
 - (c) Charas
 - (d) Doxapram
5. Ergot and its preparation belong to schedule
 - (a) P
 - (b) Q
 - (c) C1
 - (d) L
6. Schedule X drug is
 - (a) Amphetamine
 - (b) Cyclobarbitol
 - (c) Glutethimide
 - (d) All of these
7. Drug Inspector is appointed under section
 - (a) 19
 - (b) 42
 - (c) 21
 - (d) 30
8. Schedule M and Y were introduced in Drugs and Cosmetics Act in
 - (a) 1976
 - (b) 1982
 - (c) 1988
 - (d) 1980
9. Example of Schedule G drug is
 - (a) Tetracycline
 - (b) Ampicillin
 - (c) Ibuprofen
 - (d) Tolbutamide
10. Example of Schedule X drug is
 - (a) Diazepam
 - (b) Emetine
 - (c) Quinidine
 - (d) Ciprofloxacin
11. Opium has been under legislative control since
 - (a) 1820
 - (b) 1857
 - (c) 1925
 - (d) 1949
12. Standards for mechanical contraceptives are given in schedule
 - (a) S
 - (b) R
 - (c) Q
 - (d) T
13. The Drugs and Cosmetics Act has been divided into ___ parts
 - (a) 15
 - (b) 16
 - (c) 18
 - (d) 24
14. The Central Drugs Laboratory is established in
 - (a) Calcutta
 - (b) Lucknow
 - (c) Mumbai
 - (d) Kasauli
15. The members of the D.T.A.B. hold the office for
 - (a) 1 year
 - (b) 3 years
 - (c) 5 years
 - (d) 7 years
16. The dose of a drug is 5 mg per kg body weight. How much of the drug is required for a boy of a year weighing 21 kg
 - (a) 0.5 mg
 - (b) 1 mg
 - (c) 5 mg
 - (d) 2 mg
17. Morphine is the drug of choice in
 - (a) Urinary tract infection
 - (b) Colic pain
 - (c) Bronchial asthma
 - (d) Cardiac asthma
18. Hypotensive effect of clonidine is due to its action on
 - (a) β -adrenergic receptor
 - (b) α -adrenergic receptor
 - (c) H_2 -receptor
 - (d) H_1 -receptor
19. Tetracyclines are avoided during pregnancy because
 - (a) It is teratogenic
 - (b) Affects bone growth
 - (c) Causes discoloration of teeth
 - (d) May cause abortion
20. Powerful cardiac stimulant is
 - (a) Digitoxin
 - (b) Dopamine
 - (c) Epinephrine
 - (d) Dobutamine

UPSC DRUG INSPECTOR-2018

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1. Consider the following statements regarding 'data structure'
 1. In Hash table, access time is independent of the size of the collection
 2. In Search tree, elements are accessible in their natural order

Which of the above statements is/are correct

(a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2
2. Consider the following statements with reference to 'Open Market Operations' (OMO)
 1. OMO makes the bank rate policy more effective
 2. OMO can be used to bear out seasonal shocks
 3. OMO helps in stabilizing the prices of securities

Which of the above statements are correct

(a) 1 and 2 only (b) 1 and 3 only
(c) 2 and 3 only (d) 1, 2 and 3
3. Which of the following shells are found in the 'UNIX Operating System'
 1. Bourne shell
 2. C shell
 3. Korn shell
 4. Restricted shell

Select the correct answer using the codes given below

(a) 1, 2 and 3 only (b) 1, 2 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4
4. A 'Router' combines the features of a
 - (a) Router and a Gateway
 - (b) Bridge and a Gateway
 - (c) Router and a Bridge
 - (d) Bridge and a Repeater
5. Which Microsoft TCP/IP (Transfer Control Protocol) / (Internet Protocol) can be used over the Internet to create a secure virtual network
 - (a) SLIP (Serial Line Internet Protocol)
 - (b) PPTP (Point-to-Point Tunneling Protocol)
 - (c) TCP (Transfer Control Protocol)
 - (d) HTTP (Hyper Text Transfer Protocol)
6. 'Mahila Udyog Nidhi' is a special scheme for promoting women entrepreneurship and operated through
 - (a) Reserve Bank of India and State Bank of India
 - (b) State Financial Corporations and Scheduled Commercial Banks
 - (c) State Ministry of Women and Child Welfare
 - (d) Central Ministry of Women and Child Welfare
7. Which one of the following is NOT covered under the rules framed by 'World Trade Organization' (WTO)
 - (a) General Agreement on Tariffs and Trade (GATT)
 - (b) General Agreement on Trade in Services (GATS)
 - (c) General International (GAIC) Agreement on Collaboration
 - (d) Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS)
8. 'Hutton Theory' explains the origin of 'Untouchability' due to
 - (a) People doing certain dirty professions are excluded from mixing with others
 - (b) Partly racial, partly religious and partly a matter of social customs
 - (c) Idea of Purity and Impurity
 - (d) People occupying dirty occupations are condemned, considered as dirty and untouchables

76. Which one of the following crystal systems is having an interaxial angles of
 $a = \gamma = 90^\circ \neq \beta$
- (a) Hexagonal (b) Tetragonal
(c) Rhombohedral (d) Monoclinic
77. Consider the following data for BCC iron regarding the (220) planes: For iron (Fe) with $h=2$, $k=2$, $l=0$, and $a=0.2866\text{nm}$ (lattice parameter), the interplanar spacing will be
- (a) 0.3239 nm (b) 0.2126 nm
(c) 0.1013 nm (d) 0.0866 nm
78. For a binary system, when 3 phases are present, the number of degrees of freedom will be
- (a) 0 (b) 1
(c) 2 (d) 3
79. A 305 mm long copper piece is pulled in tension with a stress of 276 MPa and with its modulus of elasticity E of 110 GPa. If the deformation is entirely elastic, the resultant elongation will be
- (a) 0.45 mm (b) 0.57 mm
(c) 0.65 mm (d) 0.77 mm
80. Which one of the following factors affects the selection of materials regarding 'thermal conductivity'
- (a) Manufacturing process
(b) Functional requirement
(c) Cost consideration
(d) Operating parameter
81. The art of breaking of ciphers is called
- (a) Cryptanalysis (b) Cryptography
(c) Cryptology (d) Cipherology
82. A digital signature is a mathematical
- (a) The authenticity, integrity and nonrepudiation of a message
(b) The clarity of the messages
(c) The attacks from the viruses
(d) The handwritten signatures
83. Which one of the following is a keyword in Java
- (a) True (b) Static
(c) False (d) Null
84. Which of the following are the integer types of Java
- (a) char, int, short, byte
(b) int, short, char, long
(c) byte, int, char, long
(d) int, short, byte, long
85. Which one of the following is more efficient multiway branch approach in Java
- (a) switch (b) if
(c) else if (d) if-else-if
86. A technology which uses the hiding of the information in a picture is called
- (a) Steganography (b) Image rendering
(c) Bitmapping (d) Root kits
87. The presentation quality and the size of image storage depend on
- (a) Resolution and color depth
(b) Color pallets
(c) Color models
(d) Color combinations
88. The server replication is a technique for improving the performance of server side is called
- (a) Caching (b) Mirroring
(c) Flash crowds (d) Proxy
89. Which one of the following is NOT belonging to the string class in Java
- (a) boolean equals (str) (b) int indexOf (str)
(c) int void (d) char char At (index)
90. Methods declared as 'static' have following restrictions
1. They can directly call only other 'static methods'
 2. They can directly access only static' data
 3. They do not have a 'this' reference
- Which of the above are correct
- (a) 1 and 2 only (b) 1 and 3 only
(c) 2 and 3 only (d) 1, 2 and 3
91. 'It is better for a city to be governed by a good man than by good laws'. Who said this
- (a) Plato (b) Aristotle
(c) Socrates (d) Karl Marx
92. An exoteric care about a tribe is called
- (a) Marginal care
(b) Communitarian care
(c) Peripheral care
(d) Respite care

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1. **Senna is**
 - (a) Irritant laxative
 - (b) Osmotic laxative
 - (c) Bulk laxative
 - (d) Emollient laxative
2. **Long term use of cimetidine may cause**
 - (a) Sexual dysfunction
 - (b) Renal failure
 - (c) Rebound acidity
 - (d) Parietal cell blockade
3. **Piperazine is used in the treatment of**
 - (a) Amoebiasis
 - (b) Helminthiasis
 - (c) Giardiasis
 - (d) Malaria
4. **The drug of choice for the treatment of filariasis is**
 - (a) Diethyl carbamazine
 - (b) Niclosamide
 - (c) Biloscanate
 - (d) None of these
5. **The prescription starts with the symbol R_x, means**
 - (a) Send
 - (b) Prescribe
 - (c) Take thou
 - (d) Prepare
6. **Which type of prescription should contain the age of the patient**
 - (a) Prescription for a child
 - (b) Prescription containing special formula
 - (c) Prescription containing patient medicament
 - (d) Prescription for elderly patient
7. **The plasma substitute, dextran is a homo polymer of glucose, which is produced by**
 - (a) Polymerization of glucose
 - (b) Chemical modification of starch
 - (c) Chemical modification of cellulose
 - (d) By growing the organism leuconostoc mesenteroides in sucrose containing medium
8. **Most acceptable absorbable hemostat is**
 - (a) Human fibrin foam
 - (b) Gelatin sponge
 - (c) Oxidized cellulose
 - (d) Calcium alginate
9. **Bacteria which can derive their nutritional requirements and energy from simple inorganic source are called**
 - (a) Autotrophic
 - (b) Heterotrophic
 - (c) Parasite
 - (d) Saprophyte
10. **Ziehl Neelsen's method is used to identify**
 - (a) Acid fast bacteria
 - (b) Gram positive bacteria
 - (c) Spores
 - (d) Flagella
11. **P wave of ECG is the result of**
 - (a) Atrial depolarization
 - (b) Atrial repolarization
 - (c) Ventricular depolarization
 - (d) Ventricular repolarization
12. **Incompatible blood transfusion can result in**
 - (a) Hypovolemic shock
 - (b) Anaphylactic shock
 - (c) Cardiogenic shock
 - (d) Obstructive shock
13. **Sucralfate is used in the treatment of**
 - (a) Vomit
 - (b) Constipation
 - (c) Duodenal ulcer
 - (d) Diarrhea
14. **Which property of chlorpromazine is responsible for its antipsychotic effect**
 - (a) Antidopaminergic
 - (b) Antimuscarinic
 - (c) Adrenoreceptor blocking
 - (d) Anti 5-HT property
15. **Which of the following is broad spectrum anthelmintic**
 - (a) Mebendazole
 - (b) Piperazine
 - (c) Diethylcarbamazine
 - (d) Chloroquine
16. **Cancer of epithelial tissue is called**
 - (a) Carcinoma
 - (b) Sarcoma
 - (c) Leukemia
 - (d) Hodgkin's disease

TAMIL NADU DRUG INSPECTOR-2018

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- The first order kinetics time required to achieve steady state level can be predicted from which of the following parameter is helpful in determining the time required to achieve steady state if drug follows first order kinetics**
 - Half life
 - Maximum loading dose
 - Clearance
 - Volume of distribution
- In hepatic metabolism, which of the following is a phase-II reaction in drug biotransformation**
 - Oxidation
 - Reduction
 - Glucuronide conjugation
 - Hydrolysis
- Which of the following pharmacokinetics parameter is useful in calculation of extent of adsorption**
 - C_{max}
 - Clearance
 - T_{max}
 - Area under curve (AUC)
- DPT (Tripple antigen) is given for prevention of**
 - Diphtheria, Pertussis, Tetanus
 - Diphtheria, Pneumonia, Tetanus
 - Diphtheria, Pneumonia, Tuberculosis
 - Diphtheria, Pertussis, Tuberculosis
- Identify the endotoxin producing bacteria among the following**
 - Clostridium botulism*
 - Corynebacterium diphtheriae*
 - Salmonella typhi*
 - Clostridium tetani*
- Which animal is commonly used for preparation of antitoxin**
 - Rabbit
 - Horse
 - Rat
 - Mice
- The potency of diphtheria antitoxin is determined by comparing the dose necessary to protect the experimental animals against the erythrogenic effects of the standard preparation of diphtheria antitoxin to give the same protection. Which of the following animals are specified for their test**
 - Guinea pigs or Rabbits
 - Beagle dogs or Cats
 - Albino mice or Wistar rats
 - Hamsters or Frogs
- What is the recommended antimicrobial preservative for test toxin refined for biological assay of diphtheria antitoxin**
 - Toluene
 - Sodium benzoate
 - Salt
 - Sugar
- In the tetanus vaccine (adsorbed) the potency of tetanus can be determined by injecting subcutaneously into a Guinea pigs. The weight of the Guinea should be**
 - 25g and 35g
 - 250g and 350g
 - 200g and 225g
 - 2500g and 3500g
- Two monochromators are essential for**
 - Colorimetry
 - Spectrophotometry
 - Spectrofluorimetry
 - Flame photometry
- Which of the following is the recommended diluents used in the determination of test dose of toxin used for biological assay of diphtheria antitoxin**
 - Sugar solution
 - Ringer solution
 - Saline solution
 - Tyrode solution

194. The topical sulfonamide which prevents colonization of burns by both gram-positive and gram-negative bacteria is

- (a) Sulfisoxazole (b) Mafenide propionate
(c) Sulfadiazine (d) Sulfasalazine

195. Amikacin is semisynthetic derivative of

- (a) Kanamycin (b) Penicillin
(c) Mitomycin (d) Bleomycin

196. The antiulcer drug, which has a thiazole ring, is

- (a) Famotidine (b) Ranitidine
(c) Cimetidine (d) Dexrabeprazole

197. Bromocriptine is a selective

- (a) D₁ agonist (b) D₂ agonist
(c) D₁ antagonist (d) D₂ antagonist

198. The H₁ receptor antagonist having a high antimuscarinic action is

- (a) Diphenhydramine HCl
(b) Loratadine
(c) Fexofenadine
(d) Hydroxyzine

199. Ondansetron acts on

- (a) 5HT₃ receptor (b) H₁ receptor
(c) D₂ receptor (d) NK1 receptor

200. All of the following drugs are mucosal protective agents, EXCEPT

- (a) Bismuth salts (b) Sucralfate
(c) Misoprostol (d) Pirenzepine

ANSWER KEY

1-a	2-c	3-d	4-a	5-c	6-b	7-a	8-a	9-b	10-c
11-c	12-c	13-d	14-a	15-d	16-b	17-b	18-a	19-d	20-c
21-a	22-c	23-c	24-a	25-d	26-c	27-b	28-c	29-d	30-d
31-c	32-c	33-b	34-a	35-c	36-b	37-c	38-d	39-c	40-d
41-a	42-d	43-a	44-a	45-b	46-a	47-a	48-d	49-b	50-b
51-d	52-d	53-b	54-b	55-c	56-d	57-a	58-a	59-a	60-a
61-a	62-b	63-c	64-c	65-d	66-b	67-c	68-a	69-b	70-b
71-d	72-c	73-c	74-b	75-c	76-a	77-a	78-a	79-b	80-b
81-b	82-a	83-b	84-c	85-b	86-b	87-b	88-b	89-a	90-d
91-b	92-a	93-a	94-b	95-c	96-c	97-a	98-a	99-d	100-c
101-b	102-	103-a	104-d	105-d	106-b	107-a	108-d	109-a	110-c
111-c	112-b	113-c	114-c	115-c	116-b	117-d	118-a	119-b	120-a
121-a	122-d	123-d	124-b	125-c	126-a	127-d	128-c	129-b	130-d
131-a	132-c	133-b	134-b	135-d	136-b	137-b	138-b	139-a	140-d
141-c	142-c	143-a	144-c	145-b	146-d	147-c	148-b	149-b	150-c
151-a	152-c	153-d	154-a	155-c	156-a	157-b	158-c	159-c	160-c
161-a	162-b	163-c	164-c	165-d	166-b	167-c	168-d	169-c	170-d
171-c	172-c	173-c	174-a	175-c	176-d	177-c	178-c	179-b	180-a
181-c	182-a	183-b	184-c	185-b	186-c	187-a	188-b	189-a	190-b
191-c	192-a	193-b	194-b	195-a	196-a	197-b	198-a	199-a	200-d

MP DRUG INSPECTOR-2017

SCAN ME



To Join FREE
Online Test

1. The ___ is used by the user to give instructions to the computer
 - (a) Input Device
 - (b) Output Device
 - (c) Control Unit
 - (d) Arithmetic and Logic Unit
2. Which of the following is NOT a File system
 - (a) FAT
 - (b) NTFS
 - (c) UFS
 - (d) LCD
3. In MS Word, how many margins are on a page
 - (a) Two (header and footer)
 - (b) Four (top, bottom, right, left)
 - (c) Two (landscape and Portrait)
 - (d) Two (top and bottom)
4. What kind of Font would you use for displaying the 2 in 10²
 - (a) Italic
 - (b) Small
 - (c) Superscript
 - (d) Subscript
5. Which icon is used to check spelling
 - (a)
 - (b)
 - (c)
 - (d)
6. What defines a transaction of buying or selling online
 - (a) Online transaction processing (OLTP)
 - (b) E-commerce
 - (c) Commercial Networking
 - (d) None of these
7. The ↵ symbol refer to the _____ key in the keyboard
 - (a) Enter
 - (b) Shift
 - (c) Tab
 - (d) Backspace
8. _____ is an input device
 - (a) Pendrive
 - (b) Scanner
 - (c) Printer
 - (d) Plotter
9. Which of the following is NOT a programming language
 - (a) C++
 - (b) JavaScript
 - (c) Visual Basic
 - (d) HTML
10. In Excel, how many worksheets are present in a workbook by default
 - (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
11. Choose the option that best fills in the sentence Mumbai is ___ but Kolkata is ___ in area
 - (a) big, bigger
 - (b) big, biggest
 - (c) bigger, biggest
 - (d) bigger, more bigger
12. Choose the option that is opposite in meaning to the word italicized in the following sentence The little girl looked absolutely beautiful in her new dress and shoes
 - (a) Dirty
 - (b) Lovely
 - (c) Filthy
 - (d) Ugly
13. Choose the correct form of expression to complete the sentence This is the ___ of the bicycle, which was stolen
 - (a) description
 - (b) account
 - (c) information
 - (d) profile
14. Choose the appropriate preposition for the given sentence The dog may bite you if you try to take _____ the bone it is chewing
 - (a) on
 - (b) away
 - (c) off
 - (d) over
15. Choose the correct form of tense for the given sentence Maya _____ of giving up her job
 - (a) is thinking
 - (b) thinks
 - (c) will have been thinking
 - (d) has thought
16. Choose the correct form of verb for the given sentence At the rally, the spokesman ___ that most people looked at the government's economic policy to be a great success
 - (a) measured
 - (b) contemplated
 - (c) claimed
 - (d) declared

57. Choose the correct answer and fill up the blanks

$-1 \times -97321 = \text{-----}$

- (a) 97321 (b) -97321
(c) -1 (d) 1

58. What is the range of the data given below

20, 35, 70, 65, 45, 95, 15, 80

- (a) 15 (b) 80
(c) 45 (d) 95

59. Gourav bought a scooter for 45000 rupees. If the shopkeeper has given him a discount of 10%, what was the marked price of the scooter

- (a) Rs. 50000 (b) Rs. 55000
(c) Rs. 65000 (d) Rs. 60000

60. The difference $20p^2 - 15q^2 - 21$, and $-12 + 11p^2 - 6q^2$ is

- (a) $9p^2 - 9q^2 - 9$ (b) $9p^2 + 9q^2 + 9$
(c) $9p^2 + 9q^2 - 12$ (d) $-9p^2 + 9q^2 - 12$

61. What is the measure of the base angle of an isosceles triangle, if its vertical angle is 70°

- (a) 110° (b) 55°
(c) 90° (d) 70°

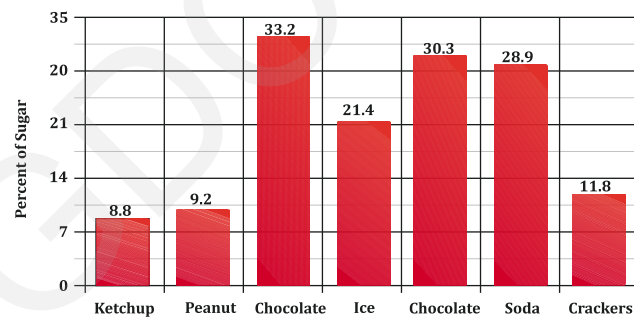
62. Madhuri took a loan of 70000 rupees at the rate of 5% from a bank and bought a scooter. After two years, she cleared the loan. How much money she would have paid in all

- (a) Rs. 75000 (b) Rs. 35000
(c) Rs. 77000 (d) Rs. 7000

63. Find the predecessor of $-(9^2 - 6^2) / -(9^2 - 6^2)$

- (a) -44 (b) -46
(c) 44 (d) 46

64. Sugar contained in sweet items represented in this graph.



From the adjoining graph, find out what is the percentage of sugar in the chocolate cake

- (a) 33.2% (b) 30.3%
(c) 11.8% (d) 28.9%

65. The sum of two numbers is 40. If one number is

$1/7$ of the larger number, the numbers are

- (a) 33,7 (b) 28,7
(c) 40,0 (d) 35,5

66. Express the ratio 550 g to 5 kg

- (a) 11:1 (b) 55:50
(c) 11:5 (d) 11: 100

67. If the arithmetic mean of 18, 15, 16, 10 and x is 14, find the value of x

- (a) 10 (b) 13
(c) 12 (d) 11

68. An express train runs 900 km at an average speed of 90 km/hour, stopping for 3 minutes at stations after every 100 km. How long it would take to reach its destination

- (a) 10 hr 30 min (b) 10 hr 24 min
(c) 10 hr 27 min (d) 10 hr

69. Complete the table of values for the following equation : $X + 2 = Y$

$X \ 4 \ -1 \ 0$

- (a) 2, 4, 5 (b) -3, -6, -5
(c) 6, 1, 2 (d) 1, 4, 5

70. A set of 6 T-shirts costs Rs. 900, how much would be the cost of 90 of the same T-shirts

- (a) Rs. 2000 (b) Rs. 13500
(c) Rs. 1350 (d) Rs. 1400

71. A can do a piece of work in 30 days. He works at it for 20 days but leaves the task incomplete. B takes over and completes it in 12 days. If A and B had worked together, how many days would it have taken them to complete the work

- (a) $16\frac{1}{11}$ days (b) $16\frac{4}{11}$ days
(c) $16\frac{7}{11}$ days (d) $16\frac{10}{11}$ days

72. If one litre of water is added to 4 litres of sugar solution containing 25% sugar, the percentage of sugar in the new solution will be

- (a) 25% (b) 20%
(c) 30% (d) 15%

73. A cloth merchant, on selling 27 metres of cloth, obtains a profit equal to the selling price of 9 metres of the same cloth. Find his profit percentage

- (a) 60% (b) 50%
(c) 40% (d) 30%

KERALA DRUG INSPECTOR-2017

SCAN ME



To Join FREE
Online Test

1. **Silk is obtained from**
(a) *Ovis aries* (b) *Bombyx mori*
(c) *Gossypium hirsutum* (d) *Cannabis sativa*
2. **Warfarin is**
(a) Hypoglycaemic (b) Urinary antiseptic
(c) Oral anticoagulant (d) In vitro anticoagulant
3. **An absorbable suture is**
(a) Silk (b) Nylon
(c) Catgut (d) Linen
4. **Hypolipidaemic agent**
(a) Simvastatin (b) Metformin
(c) Methimazole (d) Olanzapine
5. **Molisch test is used for the estimation of**
(a) Carbohydrates (b) Sugar
(c) Glycosides (d) Protein
6. **Selenium sulphide is used as**
(a) Antacid (b) Antidandruff
(c) Emetic (d) None of these
7. **The joint that help for the movement of knee**
(a) Pivot joint (b) Synovial joint
(c) Hinge joint (d) Gliding joint
8. **Strongest bone, that bears the weight of our body**
(a) Femur (b) Clavicle
(c) Vertebral column (d) Hip girdle
9. **Dry heat sterilization is usually carried out in**
(a) Autoclave (b) Hot air oven
(c) Membrane filters (d) Centrifuge
10. **Eugenol is found in**
(a) Myrrh (b) Clove
(c) Asafoetida (d) Bael
11. **Vinca is**
(a) Antimalarial (b) Expectorant
(c) Antineoplastic (d) Antiemetic
12. **Brunner's glands are found in**
(a) Pancreas (b) Stomach
(c) Liver (d) Small intestine
13. **Water soluble ointment base**
(a) Hard paraffin (b) Macrogol
(c) Soft paraffin (d) Wool fat
14. **Pyrogen test is carried out in**
(a) Guinea pig (b) Rabbit
(c) Rat (d) Chicken
15. **Proton pump inhibitor**
(a) Cimetidine (b) Misoprostol
(c) Omeprazole (d) Benzhexol
16. **A prokinetic drug**
(a) Ramipril (b) Triamterene
(c) Metoclopramide (d) Ondansetron
17. **Cotrimoxazole is a combination of**
(a) Clotrimazole and ketoconazole
(b) Trimethoprim and Pyrimethamine
(c) Clotrimazole and Sulphadiazine
(d) Trimethoprim and Sulfamethoxazole
18. **β -lactam antibiotic**
(a) Erythromycin (b) Cephalosporins
(c) Tetracycline (d) Ciprofloxacin
19. **The main adverse effect of chloramphenicol**
(a) Diarrhoea
(b) Cardiac failure
(c) Dry cough
(d) Bone marrow depression
20. **Streptomycin is**
(a) Quinolone (b) Macrolide
(c) Aminoglycoside (d) Tetracycline
21. **Artemisinin is**
(a) Antineoplastic (b) Antimalarial
(c) Antifungal (d) Diuretic
22. **The causative agent of chicken pox is**
(a) Rubella (b) Arbovirus
(c) Varicella zoster (d) Yersinia pestis
23. **An example of arthropod-borne infection**
(a) Tuberculosis (b) Amoebiasis
(c) Leprosy (d) Plague

HP DRUG INSPECTOR-2016

SCAN ME

To Join FREE
Online Test

- In the Drugs and Cosmetics Act and Rules, the Schedule relating to GLP is
 - Schedule M
 - Schedule L1
 - Schedule M1
 - Schedule P
- Which separation technique is suitable for simultaneous analysis of standards and samples in a single run
 - HPLC
 - GC
 - TLC
 - UV
- The following plant bark is used as cardiotoxic
 - Withania somnifera*
 - Terminalia bellirica*
 - Terminalia arjuna*
 - Zingiber officinale*
- The typical dry heat condition employed in the sterilization of pharmaceutical products
 - 250°C for 90 min
 - 180°C for 30 min
 - 200°C for 45 min
 - 100°C for 60 min
- Match the reagent with major composition and select correct answer from the codes given below

(P) Mayer
(Q) Dragendorff's
(R) Wagner reagent
(S) Hager reagent
(I) Potassium bismuth iodide
(II) Iodine in potassium iodide
(III) Picric acid
(IV) Potassium mercuric iodide

 - P-(IV), Q-(I), R-(III), S-(II)
 - P-(III), Q-(I), R-(II), S-(IV)
 - P-(II), Q-(I), R-(IV), S-(III)
 - P-(I), Q-(IV), R-(II), S-(III)
- For USP-content uniformity, out of 10 tablets, 9 tablets may contain X% and NOT more than Y% of labeled drug content
 - X 75%, Y = 125%
 - X = 85%, Y = 115%
 - X=65%, Y = 135%
 - X 95%, Y = 105%
- Density can be measured by the following apparatus
 - Soxhlet extraction
 - Karl Fischer Titrator
 - Pycnometer
 - Distillation
- The most commonly used carrier gas in gas chromatography
 - Hydrogen
 - Argon
 - Helium
 - Neon
- Moisture content of pharmaceuticals is determined by
 - RP-HPLC
 - GC-FID
 - Karl Fischer method
 - None of these
- All of the following are AIDS tests, EXCEPT
 - ELISA
 - Fuji
 - RIA
 - Western's test
- In the Drugs and Cosmetics Act and Rules, the Schedule relating to GMP for non-allopathic (AYUSH) is
 - Schedule M
 - Schedule T
 - Schedule S
 - Schedule M1
- 0.9% of NaCl is ___ with blood plasma
 - Hypertonic
 - Hypotonic
 - Isotonic
 - None of these
- The following carbohydrate is commonly known as invert sugar
 - Glucose
 - Fructose
 - Lactose
 - Sucrose
- USP stands for
 - Universal Standard Pharmacopoeia
 - United States National Formulary
 - United States Pharmacopoeia
 - United States Nations Pharmacopoeia
- Government Analyst for Ayurvedic, Siddha or Unani drug appointed by Central or State Government under
 - Section 20
 - Section 33F
 - Section 33G
 - Section 21

MPSC DRUG INSPECTOR-2016

SCAN ME

To Join FREE
Online Test

- HIV/AIDS is diagnosed by some specific tests. Identify which among the following test is/are used**
 - ELISA
 - DNA-PCR by amplification
 - Western blot
 - All of these
- What is the antidote for Lead poisoning**
 - Dimercaptosuccinic acid
 - Physostigmine
 - Fomepizole
 - Atropine
- Which of the following drugs is NOT a Tocolytic**
 - Ritodrine
 - Magnesium sulfate
 - Nifedipine
 - Ergotamine
- Which of the following NSAIDs is NOT a propionic acid derivative**
 - Ibuprofen
 - Naproxen
 - Oxaprozin
 - Piroxicam
- Which anticoagulant is produced by mast cells and basophils**
 - Heparin
 - Prostaglandin
 - Histidine
 - Vitamin K
- Under which rule of Drugs and Cosmetics Act, 1940 and rules 1945, licences for blood banks are issued**
 - 122 G
 - 122 A
 - 160 B
 - 150 B
- Match the following**

(P) Thromboplastin	(I) Factor VII
(Q) Proconvertin	(II) Factor III
(R) Fibrinogen	(III) Factor II
(S) Prothrombin	(IV) Factor I

 - P-(II), Q-(I), R-(IV), S-(III)
 - P-(III), Q-(IV), R-(I), S-(II)
 - P-(I), Q-(II), R-(III), S-(IV)
 - P-(III), Q-(IV), R-(II), S-(I)
- Basophils originate in**
 - Megakaryoblast
 - Monoblast
 - Megakaryocyte
 - Myeloblast
- Match the following anticancer drugs with their cell cycle effects**

(P) Cytarabine (ARA-c)	(I) G₁-S phase
(Q) Etoposide	(II) M phase
(R) Vincristine	(III) G₂-M phase
(S) Bleomycin	(IV) S phase

 - P-(IV), Q-(I), R-(II), S-(III)
 - P-(IV), Q-(II), R-(I), S-(III)
 - P-(I), Q-(II), R-(III), S-(IV)
 - P-(IV), Q-(III), R-(I), S-(II)
- Which of the following is an ester and short-acting Local anaesthetic**
 - Tetracaine
 - Dibucaine
 - Lidocaine
 - Procaine
- Antifungal Antibiotic Amphotericin B is obtained from**
 - Streptomyces pimprina*
 - Penicillium griseofulvin*
 - Streptomyces nodosus*
 - Both (a) and (c)
- Which of the following drugs is NOT an enzyme - inducer**
 - Phenobarbitone
 - Phenytoin
 - Rifampin
 - Cimetidine
- One of the following drugs is most widely used as local anaesthetic for infiltration, regional nerve block, epidural and subarachnoid anaesthesia. It is also commonly used for topical anaesthesia**
 - Cocaine hydrochloride
 - Procaine hydrochloride
 - Lidocaine hydrochloride
 - Mepivacaine hydrochloride

93. Drug will be deemed to be spurious if
- (P) If it is imported under a name which belongs to another drug
 - (Q) If it is coloured, coated, powdered or polished so that damage is concealed
 - (R) If it is not labelled in the prescribed manner
 - (S) If it is made to appear of better or greater therapeutic value

Which of the above statement/s is/are CORRECT

- (a) (P) and (Q) only
 - (b) (R) and (S) only
 - (c) (P) and (R) only
 - (d) Only (P)
94. Select the logically equivalent option with respect to the statement given below. "If Uma and Sohil go for a beach walk, then it is raining."
- (a) If it is not raining then Uma and Sohil do not go for a beach walk.
 - (b) If Uma and Sohil do not go for a beach walk, then it is raining.
 - (c) If Uma and Sohil do not go for a beach walk, then it is not raining.
 - (d) If it is not raining then Uma and Sohil go for a beach walk.

95. Donu, Nanu and Yonu who belong to three different communities, participated in a chapati making competition and one of them won the trophy. They belong to communities namely Romi, Mori and Bori. All members of Romi community always make true statements, all members of Mori community always make untrue statements, all members of Bori community make true and untrue statements alternately. They made the following statements when reporter asked them to comment.

Donu: If Yonu had not disturbed me by singing loudly while making chapatis I would have won the trophy. Yonu always speaks the truth. Yonu is the winner.

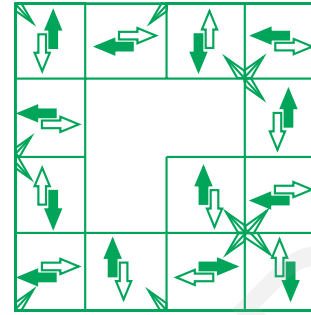
Nanu: Donu won the trophy. Yonu is not the member of Mori community.

Yonu: I was not singing to disturb Donu. Nanu won the trophy.

Who won the trophy

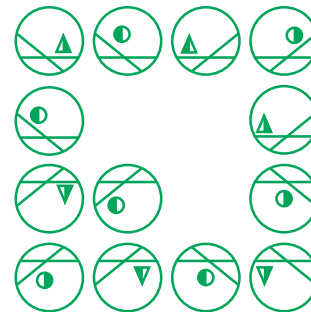
- (a) Yonu
- (b) Donu
- (c) Nanu
- (d) Yonu and Donu jointly won the trophy

96. Select a set of logically appropriate images for filling empty places



- (a)
- (b)
- (c)
- (d)

97. Select logically appropriate set of images to fill the blank places of following arrangement



- (a)
- (b)
- (c)
- (d)

98. A family consists of H, G, F, E, D and C as its members. Chas two sons, an unmarried daughter and a daughter-in-law and his wife shares all his responsibilities. H and his mother D are very supportive to G's wife in her social work. H is the brother-in-law of above mentioned daughter-in-law. G's sister assists G's wife E in her social work. Select option that indicates C's daughter

- (a) G
- (b) F
- (c) E
- (d) H

CHHATTISGARH DRUG INSPECTOR-2015

SCAN ME



To Join FREE
Online Test

1. **The WIDAL test is performed for**
 - (a) Typhoid fever
 - (b) Malaria fever
 - (c) Dengue fever
 - (d) None of these
2. **The types of toothed tissue forceps are**
 - (a) All is type
 - (b) Lane's type
 - (c) Magnitan's type
 - (d) All of these
3. **Who is the ex-officio chairman of the Central Insecticide Board constituted to government about manufacture sale storage transport and distribution of insecticides with a view to ensure safety to human beings or animals**
 - (a) Drugs Controller, India
 - (b) Plant Protection Advisor, to the Govt. of India
 - (c) Chief Advisor of Factories
 - (d) Director- General of Health Services
4. **Trephine and Trocar are**
 - (a) Surgical cutting instrument
 - (b) Accessories and implants
 - (c) Refractor
 - (d) All of these
5. **To declare and make rule for any manufacturing process or operation as 'Dangerous operations' who is empowered under the Factories Act, 1948**
 - (a) Central Government
 - (b) State Government
 - (c) District Administration
 - (d) Inspector of Factories
6. **The total number of members nominated by Central Government in Pharmacy Council of India**
 - (a) 5
 - (b) 6
 - (c) 4
 - (d) 8
7. **The Metzenbaum scissors are used**
 - (a) To dissect soft tissue
 - (b) To cut surface
 - (c) Both (a) and (b)
 - (d) None of these
8. **Ceiling price of Schedule formulation is calculated by the formula**

$$P(c) = P(s) (1 + M/100)$$
In this P(s) signifies
 - (a) Price of highest paid formulation
 - (b) Average price to retailer
 - (c) Margin to retail
 - (d) Maximum Retail price
9. **Mosquito clamp is used to**
 - (a) Hold mosquitoes
 - (b) Stop blood flow
 - (c) Hold delicate tissue and compress bleeding vessels
 - (d) None of these
10. **Which body is entrusted with the task of maintaining the Central Register of Pharmacists**
 - (a) State Pharmacy Council
 - (b) Pharmacy Council of India
 - (c) Medical Council of India
 - (d) Drug Controller of India
11. **Which chapter of the Pharmacy Act, 1948 deals with the Registration of Pharmacists**
 - (a) Chapter II
 - (b) Chapter III
 - (c) Chapter IV
 - (d) Chapter V
12. **When can a person interested may make an application to the controller for grant of compulsory licence on patent on specific grounds**
 - (a) After the expiration of seven years from the date of grand of patent
 - (b) After the expiration of ten years from the date of grant of a patent
 - (c) After the expiration of twenty years from the date of grant of a patent
 - (d) After the expiration of three years from the date of grant of a patent
13. **Along with the duties of Controller of patents this Authority discharges what other duties**
 - (a) Controller of Designs
 - (b) Registrar of Trademark
 - (c) Controller - General of patents Designs and Trademark
 - (d) All of these

UPSC DRUG INSPECTOR-2015

SCAN ME

To Join FREE
Online Test

- Zero order kinetics is seen in all EXCEPT**
 - Salicylates
 - Barbiturates
 - Phenytoin
 - Ethanol
- Which one of the following is NOT a prodrug**
 - Chloral hydrate
 - Diazepam
 - Enalapril
 - Oxcarbazepine
- Which one of the following drugs does NOT cross the placental barrier**
 - Morphine
 - Lithium
 - Warfarin
 - Heparin
- The evidence which indicates that a drug is stored extravascularly is**
 - Small clearance
 - Small apparent volume of distribution
 - Large apparent volume of distribution
 - Large clearance
- Which one among the following drugs can be given safely during pregnancy**
 - Tetracycline
 - Chloroquine
 - Thalidomide
 - Primaquine
- Lignocaine is used in the treatment of**
 - Atrial Flutter
 - Atrial Fibrillation
 - PSVT
 - Ventricular tachycardia
- Which one among the following drugs is used in AV block**
 - Isoprenaline
 - Propranolol
 - Dopamine
 - Disopyramide
- Mineralocorticoids cause**
 - Gluconeogenesis
 - Glycogen synthesis
 - Lipolysis
 - Sodium reabsorption
- In UV spectrophotometer, the light source is**
 - Tungsten lamp
 - Sodium lamp
 - Deuterium lamp
 - None of these
- The principle of infrared spectra is based upon**
 - Electronic excitation
 - Resonance
 - Dissociation
 - Molecular vibrations
- Williamson Synthesis is used for the preparation of**
 - Aldehydes
 - Alcohols
 - Ethers
 - Amides
- Ketoconazole structure contains**
 - Imidazole ring
 - Triazole ring
 - Tetrazole ring
 - Thiazole ring
- Vitamin containing steroidal moiety is**
 - Vitamin D
 - Vitamin A
 - Vitamin E
 - Vitamin B₁₂
- Dragendorff's reagent is employed for the identification of**
 - Carbohydrates
 - Alkaloids
 - Flavonoids
 - Proteins
- In which one among the following is Pteridine ring system present**
 - Ascorbic acid
 - Thiamine
 - Pyridoxine
 - Folic acid
- Aminophylline is a combination of**
 - Theophylline and dimethylamine
 - Caffeine and theophylline
 - Theophylline and ethylenediamine
 - Caffeine and ethylenediamine
- Purine ring system is a fusion of**
 - Pyridine and imidazole
 - Pyrimidine and imidazole
 - Piperidine and pyrazole
 - Piperidine and imidazole
- Furosemide contains the following heterocycle**
 - Furan
 - Thiophene
 - Pyrrole
 - Imidazole
- Term of every patent in India (under Indian Patent Act) from the date of filing is**
 - 10 years
 - 14 years
 - 20 years
 - 24 years

MPSC DRUG INSPECTOR-2014

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1. _____ is NOT the component of blood proteins
 - (a) Albumin
 - (b) Proconvertin
 - (c) Globulin
 - (d) Fibrinogen
2. For import of drugs specified in the "Schedule X" a license in which form will license be required
 - (a) Form -10
 - (b) Form - 10A
 - (c) Form -10B
 - (d) Form 8
3. "Illicit traffic" in relation to narcotic and psychotropic substances means
 - (A) Cultivating any coca plant or gathering any portion of coca plant
 - (B) Cultivating opium poppy or any other cannabis plant
 - (C) Selling of Metoprolol tartrate
 - (D) Importing Montelukast
 - (a) (A) only
 - (b) (A) and (B) only
 - (c) (A), (B) and (C)
 - (d) (A), (B) and (D)
4. Ototoxicity and Nephrotoxicity are the selective toxicities of
 - (a) Penicillin
 - (b) Cephalosporin
 - (c) Aminoglycosides
 - (d) Quinolones
5. The scarlet fever
 - (A) Is caused by streptococcus pyogenes
 - (B) Is caused by enteric viruses
 - (C) Is caused by respiratory viruses
 - (D) Caused fever with rose spot formation
 - (a) (A), (B), (C)
 - (b) (A), (D)
 - (c) (A), (C)
 - (d) (B), (C)
6. The antidote BAL is used to reduce toxicity of
 - (a) Iron
 - (b) Pesticides
 - (c) Barbiturates
 - (d) Mercury
7. The time a drug takes to reach an effective concentration or steady state level depends on its
 - (a) Plasma protein binding
 - (b) Plasma concentration in circulation
 - (c) Rate of elimination from the body
 - (d) Rate of absorption in the body
8. Match the following antibiotics with the organism from which they are obtained
 1. Streptomycin
 2. Neomycin
 3. Chloramphenicol
 4. Rifampicin
 - (A) *Streptomyces fradiae*
 - (B) *Streptomyces venezuelae*
 - (C) *Streptomyces mediterranei*
 - (D) *Streptomyces griseus*
 - (a) 1-(A), 2-(C), 3-(D), 4-(B)
 - (b) 1-(D), 2-(A), 3-(B), 4-(C)
 - (c) 1-(A), 2-(B), 3-(C), 4-(D)
 - (d) 1-(B), 2-(D), 3-(C), 4-(A)
9. An interview was scheduled at certain time. Personal Assistant arrived at 10:40 AM that is 35 minutes earlier than Chairperson. Chairperson was late for interview by 25 minutes. What the scheduled time of the interview
 - (a) 11:50 AM
 - (b) 11:15 AM
 - (c) 11:05 AM
 - (d) 11:10 AM
10. What is a Central Drug Authority
 - (A) DCGI
 - (B) DGHS
 - (C) Drugs Inspector
 - (D) Independent office under the Ministry of Health and Family Welfare
 - (a) (A) only
 - (b) (A) and (B) only
 - (c) (A) and (C) only
 - (d) (D) only
11. As per I.P. the dispersion obtained when dispersible tablets are added to water, must pass through a sieve with nominal mesh aperture of
 - (a) 710 μm
 - (b) 250 μm
 - (c) 425 μm
 - (d) 510 μm

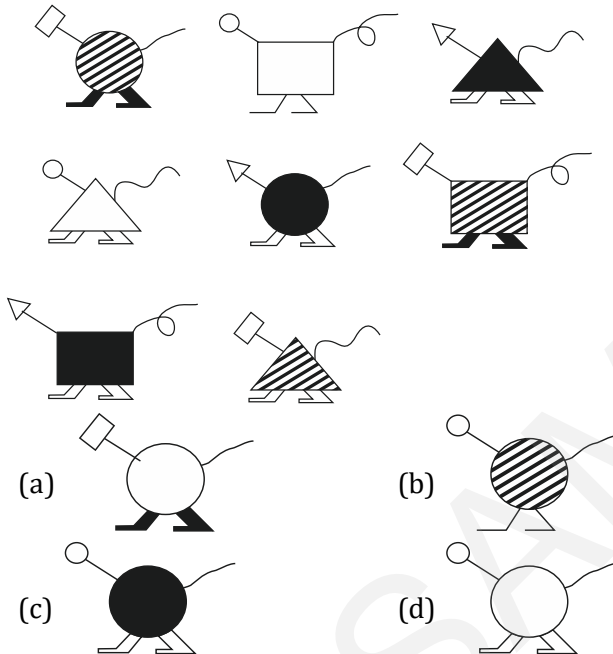
60. The confirmation of AIDS is by one of the following tests

- (a) ELISA (b) Western blot
(c) PCR test (d) Southern blot

61. Act responsible of regulation of Nutraceuticals in India is

- (a) State food and drug administration
(b) Food with nutrient function claims
(c) Food safety and standard Act
(d) Food for specified health use

62. Observe the figures. Select a figure from the given alternatives, which will fit in place of (?) appropriately



63. In dry powder inhalation products lactose is used as

- (A) Filler (B) Thinner
(C) Carrier (D) None of these
(a) (A) and (B) (b) (A) and (C)
(c) (C) only (d) (D) only

64. Which type of hypersensitivity reaction has cell-mediated (delayed) type of action

- (a) Type I Hypersensitivity
(b) Type II hypersensitivity
(c) Type III hypersensitivity
(d) Type IV hypersensitivity

65. Which of the following statement are TRUE

- (A) T.B. and Polio vaccines are of attenuated type
(B) Diphtheria and tetanus vaccines are inactivated endotoxins

(C) Cholera and plague vaccines are of inactivated type

- (a) (A) and (B) (b) (B) and (C)
(c) (A), (B), (C) (d) None of these

66. Catgut cannot be sterilized by

- (A) Heat (B) X-ray
(C) Ionizing radiation (D) Chemicals

- (a) (A) only (b) (B) only
(c) (A) and (B) (d) (A), (B), (C) and (D)

67. There is some relationship between the two terms, to the left of :: the same relationship is between the two terms, to the right of :: Out of these four terms, one is missing, shown by (?). This missing term is given as one of the alternatives. Find it

- (a) R18U21 (b) 015R18
(c) Q1ST21 (d) Q17T20

68. A polyene macrolide antibiotic, used against Candida infections is

- (a) Fluconazole (b) Terbinafine
(c) Nystatin (d) Rifampicin

69. _____ anemia results in destruction of red bone marrow

- (a) Iron deficiency (b) Pernicious
(c) Aplastic (d) Hemolytic

70. The effect of Human Immunodeficiency Virus (HIV) infection results in

- (a) Affecting cell-mediated immunity and severe loss of CD4⁺ cells
(b) Affecting cell mediated immunity and severe loss of CD8⁺ cells
(c) Affecting both antibody and cell-mediated immunity with increased CD4 cells
(d) Affecting both antibody and cell-mediated immunity and increased CD4 and CDS cells

71. In patients with AIDS the most common fungal infection is

- (a) Toxoplasmosis (b) Candidiasis
(c) Cryptococcosis (d) Aspergillosis

72. Diazonium ions are

- (a) Weakly electrophilic (b) Strongly electrophilic
(c) Weakly nucleophilic (d) Strongly nucleophilic

73. The mechanism of action of Doxorubicin is

- (a) It inhibits DNA polymerase
(b) It stabilized DNA -Topoisomerase
(c) It interferes with regeneration of lipid carrier by blocking its phosphorylation
(d) It disrupts microtubule function

JHARKHAND DRUG INSPECTOR -2013

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PHARMACEUTICAL JURISPRUDENCE

1. **A nonbonded manufactory shall inspected by the other officer at least**
 - (a) Once every month
 - (b) Once every two months
 - (c) Once every six months
 - (d) Once every year
2. **Applications for licence to manufacture goods liable to duty of excise, under medicinal and toilet preparations (Excise Duties) shall be made in**
 - (a) Form A.L.1
 - (b) Form A.L.2
 - (c) Form A.L.3
 - (d) Form A. L.4
3. **The Drug and Magic Remedies (Objectionable Advertisement) Rules came into force in the year**
 - (a) 1954
 - (b) 1955
 - (c) 1956
 - (d) 1957
4. **Publications of the advertisements is prohibited that refers to the use of any drug for the treatment of**
 - (a) Cancer
 - (b) Plaque
 - (c) Tuberculosis
 - (d) All of these
5. **Person contravening any provision of the drugs and magic remedies (objectionable advertisements) act is punishable with**
 - (a) Imprisonment up to three months or fine or both
 - (b) Imprisonment up to four months or fine or both
 - (c) Imprisonment up to five months or fine or both
 - (d) Imprisonment up to six months or fine or both
6. **Which of the following is a Magic Remedy**
 - (a) Talisman
 - (b) Mantra
 - (c) Kavach
 - (d) All of these
7. **Which of the following is violation of the Drugs and Magic Remedies (Objectionable Advertisements) Act**
 - (a) Display of signboard by a registered medical practitioner offering treatment for any disease
 - (b) Publication of a book only for scientific purpose, suggesting the use of a drug in the treatment of any disease
 - (c) Advertisement relating to any drug sent confidentially to a registered medical practitioner
 - (d) None of these
8. **The prevention of Cruelty to Animal Act was enacted in**
 - (a) 1940
 - (b) 1950
 - (c) 1960
 - (d) 1970
9. **Which of the following does NOT comes under the cruelty to animals**
 - (a) Experiments on animals for use discovery useful for using human life
 - (b) Usefully and unreasonably disinterring any injurious drug to animal
 - (c) Treating any animal so as to subject it to unnecessary pain or suffering
 - (d) Failure to provide sufficient food, drink or shelter to the animal by its owner
10. **Experiments of animals for the discovery of new drugs is allowed under which of the following Sections of the prevention of Cruelty to Animals Act**
 - (a) Section 4
 - (b) Section 14
 - (c) Section 24
 - (d) Section 34
11. **Who among the following has the responsibility to establish Society for Prevention of Cruelty to Animals (SPCA)**
 - (a) Central government
 - (b) State government
 - (c) Animal Welfare Board
 - (d) Institutes carrying out animal experiments

96. Which of the following methods would be appropriate for sterilization of a heat-labile antibiotic solution
- Dry heat using hot-air oven
 - UV radiation
 - Filtration through membrane filters
 - Gaseous using ethylene oxide
97. Which of the following methods would be appropriate for sterilization of hospital linen
- Moist heat
 - Dry heat
 - Gamma radiation
 - Gaseous
98. In iodophor povidone-iodine, what is the role of povidone
- It acts as solubilizer/carrier for iodine
 - It causes slow release of iodine
 - It imparts nonstaining and nonirritant properties
 - All of these
99. A common example of quaternary ammonium compound is
- CTAB
 - IPA
 - ETO
 - PUP-I
100. The test organism employed in phenol coefficient test for evaluation of disinfectants is
- E. coli*
 - Candida albicans*
 - Aspergillus niger*
 - Salmonella typhi*

PHARMACEUTICAL CHEMISTRY

- Alfentanil is a/an**
 - Synthetic opioid analgesic agent
 - Naturally occurring analgesic agent
 - COX-2 inhibitor
 - Anilide derivative used as NSAID
- Which one of the following does not contain piperidine moiety in its structure**
 - Mepivacaine
 - Ropivacaine
 - Lidocaine
 - Bupivacaine
- The phenothiazine derivative used for Parkinson's disease is**
 - Prochlorperazine
 - Promethazine
 - Ethopropazine
 - Chlorpromazine
- Which one of the following belongs to imidazolidine 2,4- dione class**
 - Phenytoin
 - Trimethadione
 - Phensuximide
 - Paramethadione
- Replacement of oxygen at C-2 of barbituric acid by a sulfur**
 - Increases lipid solubility
 - Decreases lipid solubility
 - Shows no change in lipid solubility
 - None of these
- In the limit test for sulphate which one of the following is used to prevent super saturation**
 - Barium sulphate
 - Potassium sulphate
 - Alcohol
 - None of these
- Which of the following is an oxidizing agent**
 - Hydrogen peroxide
 - Potassium permanganate
 - Concentrated nitric acid
 - All of these
- Molecule to become IR active in IR spectroscopy**
 - Must show dipole moment
 - Must show change in dipole moment
 - Must show magnetic moment
 - Must show change in magnetic moment
- Electromagnetic radiation used in NMR spectroscopy is**
 - Microwave
 - Radiofrequency wave
 - Ultraviolet
 - Infrared radiation
- Which one of the following indicators is used in complexometric titration**
 - Methyl orange
 - Murexide
 - Eosin
 - Crystal violet
- Sulphur containing B-complex vitamin is**
 - Biotin
 - Riboflavin
 - Niacin
 - Pyridoxine
- Triamcinolone is**
 - 9 α -fluoro 16 α - hydroxyprednisolone
 - 9 β -fluoro 16 α -hydroxy-prednisolone
 - 9 α -fluoro 16 β -hydroxy-prdnisolone
 - 9 β -fluoro 16 β -hydroxy-prednisolone
- 2,6-Dimethoxyphenyl penicillin is the IUPAC name of**
 - Ampicillin
 - Methicillin
 - Amoxicillin
 - Carbenicillin
- In gel permeation chromatography, molecules are separated on the basis of their**
 - Size and shape
 - Chemical nature
 - Adsorptive properties
 - Partition coefficient

PHARMACOLOGY

1-c	2-b	3-b	4-c	5-d	6-b	7-b	8-a	9-b	10-c
11-a	12-c	13-a	14-b	15-c	16-c	17-d	18-d	19-b	20-a
21-a	22-c	23-b	24-c	25-b	26-c	27-c	28-c	29-c	30-b
31-b	32-c	33-c	34-c	35-b	36-a	37-c	38-d	39-d	40-b
41-d	42-d	43-b	44-c	45-d	46-a	47-a	48-a	49-d	50-b
51-c	52-b	53-a	54-c	55-c	56-c	57-d	58-b	59-c	60-c
61-d	62-b	63-c	64-c	65-b	66-a	67-b	68-a	69-c	70-c
71-d	72-c	73-b	74-b	75-d	76-c	77-b	78-d	79-b	80-d
81-b	82-b	83-a	84-c	85-a	86-b	87-b	88-b	89-c	90-b
91-c	92-b	93-a	94-d	95-b	96-a	97-c	98-a	99-c	100-a

MICROBIOLOGY

1-a	2-a	3-d	4-c	5-c	6-b	7-a	8-a	9-d	10-b
11-c	12-d	13-c	14-d	15-d	16-a	17-b	18-c	19-d	20-d
21-d	22-d	23-a	24-c	25-b	26-b	27-b	28-c	29-c	30-b
31-d	32-d	33-b	34-a	35-a	36-d	37-a	38-a	39-b	40-d
41-b	42-a	43-d	44-c	45-d	46-c	47-b	48-c	49-b	50-c
51-c	52-b	53-c	54-c	55-c	56-d	57-c	58-d	59-d	60-a
61-a	62-d	63-b	64-d	65-c	66-d	67-c	68-c	69-d	70-d
71-c	72-d	73-c	74-a	75-b	76-a	77-c	78-a	79-b	80-c
81-b	82-d	83-a	84-c	85-c	86-d	87-a	88-d	89-a	90-d
91-d	92-a	93-d	94-c	95-a	96-c	97-a	98-d	99-a	100-d

PHARMACEUTICAL CHEMISTRY

1-a	2-c	3-c	4-a	5-a	6-c	7-d	8-b	9-b	10-b
11-a	12-a	13-b	14-a	15-a	16-c	17-d	18-b	19-c	20-a
21-b	22-a	23-a	24-a	25-d	26-b	27-c	28-c	29-b	30-c
31-c	32-c	33-c	34-b	35-b	36-d	37-c	38-a	39-b	40-b
41-c	42-b	43-b	44-a	45-b	46-c	47-a	48-b	49-c	50-d
51-a	52-d	53-c	54-b	55-a	56-a	57-a	58-b	59-c	60-d
61-b	62-c	63-c	64-c	65-a	66-d	67-c	68-d	69-a	70-b
71-a	72-b	73-a	74-b	75-b	76-d	77-b	78-d	79-b	80-c
81-b	82-b	83-a	84-b	85-c	86-d	87-c	88-a	89-b	90-c
91-b	92-c	93-c	94-b	95-a	96-a	97-b	98-d	99-a	100-b

ANDRA PRADESH DRUG INSPECTOR-2012

SCAN ME

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PAPER-I

1. 'Unguentum' means
 - (a) Cream
 - (b) Lotion
 - (c) Ointment
 - (d) Plaster
2. What is rectified spirit
 - (a) 75% ethanol
 - (b) 100% ethanol
 - (c) 90% ethanol
 - (d) 50% ethanol
3. In a prescription 'vespere' mean
 - (a) Talk in whisper
 - (b) Russel's viper
 - (c) In the evening
 - (d) At the morning
4. Function of sympathetic system include all EXCEPT
 - (a) Dilation of pupil
 - (b) Constriction of pupil
 - (c) Conversion of glycogen to glucose in liver
 - (d) Production of sweat
5. Antihypertensive agent
 - (a) Amphetamine
 - (b) Adrenaline
 - (c) Salbutamol
 - (d) Propranolol
6. One kilo gram is equal to
 - (a) 2.2 pound
 - (b) 3.0 pound
 - (c) 3.3 pound
 - (d) 4 pound
7. What is strophanthus
 - (a) Diuretics
 - (b) Antianemic
 - (c) Cardiac glycoside
 - (d) Antianginal
8. Drug classified under narcotic drugs and psychotropic agent include all EXCEPT
 - (a) Ephedrine
 - (b) Cocaine
 - (c) Heroin
 - (d) Hashish
9. Dapsone is useful in
 - (a) Tuberculosis
 - (b) Leprosy
 - (c) Malabsorption
 - (d) AIDS
10. Vehicles in ophthalmic drops include all EXCEPT
 - (a) Ethanol
 - (b) Isotonic phosphate
 - (c) Special boric acid
 - (d) Boric acid
11. Zidovudine is used in chemotherapy of
 - (a) Acute immune deficiency syndrome
 - (b) Small pox
 - (c) Influenza pneumonia
 - (d) Bronchogenic carcinoma
12. In what disease heart fails as a pump
 - (a) Angina pectoris
 - (b) Hepatic coma
 - (c) Congestive cardiac failure
 - (d) Nephrotic syndrome
13. In a prescription 'OID' means
 - (a) One fourth
 - (b) One quart
 - (c) Once in four days
 - (d) Four times a day
14. Catgut is sterilized by
 - (a) Dry heat method
 - (b) Autoclave
 - (c) Ionizing radiation
 - (d) Chemical method
15. Example for type I hypersensitivity reaction
 - (a) Complement mediated cell damage
 - (b) IgE mediated reaction
 - (c) Serum sickness
 - (d) Cell mediated immunity reaction
16. What is the normal cardiac output
 - (a) 1 liter/minute
 - (b) 2 liter/minute
 - (c) 4 liter/minute
 - (d) 5 liter/minute
17. Enzyme responsible for conversion of glucose to glucose 6-PO₄
 - (a) Glycogen synthase
 - (b) G-6-Phosphatase
 - (c) Glucokinase
 - (d) Phosphorylase
18. Containers for eye drops should be having all the properties EXCEPT
 - (a) Child proof
 - (b) Preserving the stability of content
 - (c) Not adversely affect content
 - (d) Withstand sterilization

115.D. Sanjeevaiah was the Chief Minister of Andhra Pradesh during

- (a) 30-9-1971 to 10-1-1973
- (b) 1-11-1956 to 11-1-1960
- (c) 11-1-1960 to 12-3-1962
- (d) 12-3-1962 to 29-2-1964

116.K. Vijaya Bhaskar Reddy was the Chief Minister of Andhra Pradesh during

- (a) 16-8-1920 to 17-9-2001
- (b) 1-11-1956 to 11-1-1960
- (c) 11-1-1960 to 12-3-1962
- (d) 12-3-1962 to 29-2-1964

117.P.V. Narasimha Rao was the Chief Minister of Andhra Pradesh during

- (a) 30-9-1971 to 10-1-1973
- (b) 1-11-1956 to 11-1-1960
- (c) 11-1-1960 to 12-3-1962
- (d) 12-3-1962 to 29-2-1964

118.To eradicate poverty in India, World Bank would help India in a novel way to the extent of

- (a) 12.10%
- (b) 9.20%
- (c) 7.80%
- (d) 10.96%

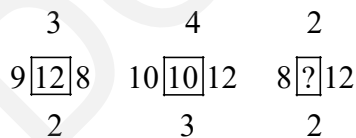
119.Highest percentage of votes polled by the successful candidate in Kamareddy Assembly seat by-election held recently

- (a) 55.2%
- (b) 51.2%
- (c) 46.1%
- (d) 47.2%

120.In the recently held Rajya Sabha elections from Andhra Pradesh, how many are elected unopposed

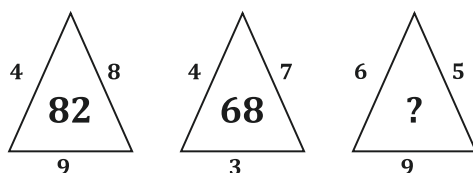
- (a) 6
- (b) 5
- (c) 4
- (d) 3

121.Number to be at question mark in the following



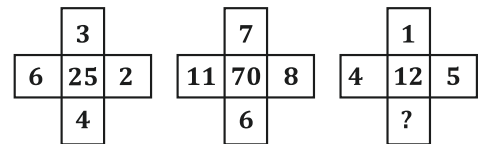
- (a) 22
- (b) 24
- (c) 26
- (d) 32

122.Number to be at question mark in the following



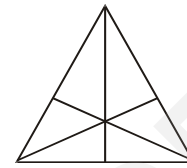
- (a) 60
- (b) 70
- (c) 80
- (d) 90

123. Number to be at the question mark



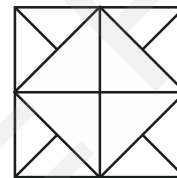
- (a) 10
- (b) 6
- (c) 2
- (d) 1

124. Number of triangles in the following



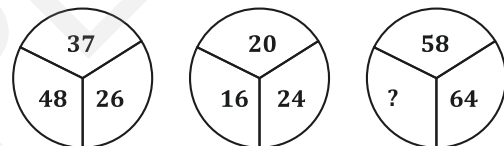
- (a) 12
- (b) 13
- (c) 14
- (d) 16

125. Number of triangles in the following



- (a) 16
- (b) 20
- (c) 18
- (d) 24

126. Number to be at the question mark



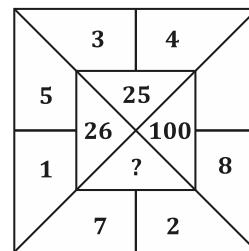
- (a) 52
- (b) 53
- (c) 54
- (d) 55

127. Number to be at the question mark

19	3	25
17	11	39
9	5	?

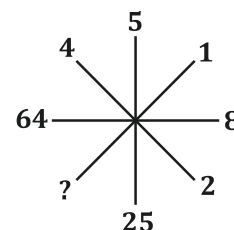
- (a) 19
- (b) 20
- (c) 21
- (d) 22

128. Number to be at the question mark



- (a) 53
- (b) 54
- (c) 55
- (d) 56

129. Number to be at the question mark



- (a) 1
- (b) 3
- (c) 6
- (d) 9

ODISHA DRUG INSPECTOR-2012

SCAN ME



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1. The committee appointed by Government of India to look in to the drug industry and various aspects of drugs like licensing price control, imports, role of foreign sector quality control was headed by
 - (a) Mudaliar
 - (b) Bhatia
 - (c) Hathi
 - (d) Bhore
2. The Poison Act was introduced in the year
 - (a) 1878
 - (b) 1894
 - (c) 1919
 - (d) 1930
3. One of the following is NOT correct objectives of Pharmacy Act 1948 of India
 - (a) Restoration of pharmacy profession in its due place in the health service
 - (b) Raising the status of pharmacy profession
 - (c) To regulate the practice of pharmacy
 - (d) To have common syllabus of pharmacy throughout India
4. Find for false claim to be a registered pharmacist on first conviction is
 - (a) Rs. 500
 - (b) 6 months imprisonment
 - (c) Rs. 1,000
 - (d) Both fine and imprisonment
5. The main objective of Drugs and Cosmetic act, 1940 and subsequent amendments is to regulate the import manufacture distribution and sale of drugs and cosmetics of allopathy and the following categories, EXCEPT
 - (a) Ayurveda
 - (b) Siddha
 - (c) Unani Tibb
 - (d) Homoeopathy
6. One of the following does NOT come under the purview of PCI
 - (a) Education regulations
 - (b) Recognition of foreign qualification
 - (c) Approval of pharmacy institutions and withdrawal of approvals
 - (d) Issuing licenses to pharmacists
7. The sale of opium to the State Government or manufacturing chemists is made by Central Government opium factory located at
 - (a) Ghaziabad
 - (b) Ghazipur
 - (c) Gorakhpur
 - (d) Goa
8. Pharmacy Council of India was constituted in which year
 - (a) 1949
 - (b) 1948
 - (c) 1947
 - (d) 1950
9. All products of parenteral use are listed under the following schedule
 - (a) A
 - (b) B
 - (c) C
 - (d) D
10. The total number of State Pharmacy Council members are
 - (a) 10
 - (b) 15
 - (c) 20
 - (d) 25
11. The first edition of Indian Pharmacopoeia was out in
 - (a) 1945
 - (b) 1950
 - (c) 1955
 - (d) 1960
12. Applications for grant or renewal of licence for manufacturing Ayurvedic Siddha and Unani drug is required to be made in
 - (a) Form 24-D
 - (b) Form 48
 - (c) Form 25-E
 - (d) Form 24-E
13. Drugs to be taken under the medical supervision are included under the following schedule
 - (a) E
 - (b) G
 - (c) H
 - (d) K
14. The drugs (price control) order, 1995 does not take into account one of the following in fixing the retail price
 - (a) Material cost and conversion cost
 - (b) Packing material and packing charges
 - (c) Excise duty
 - (d) Local taxes
15. New drugs developed through research are exempted from price control for a period of
 - (a) 5 years
 - (b) 10 years
 - (c) 15 years
 - (d) 20 years



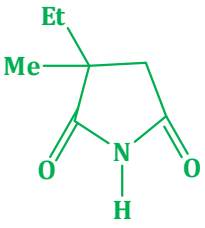
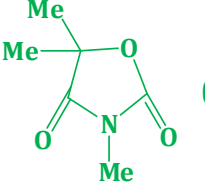
TAMIL NADU DRUG INSPECTOR-2012

SCAN ME



To Join FREE
Online Test

- Which one of the following is Correctly matched
 - Digitalis-Uniseriate, multicellular trichomes
 - Senna- Multiseriate, thin walled trichomes
 - Opium- Contain starch and tannins
 - Rasna- Family: Euphorbiaceae
- The vernacular Tamil name for Rasna is
 - Rasana
 - Nannari
 - Valaipalam
 - Perarathai
- The decreasing order of Narcotic action is
 - Morphine, codeine, papaverine, narcotine, thebaine
 - Morphine, codeine, thebaine, papaverine, narcotine
 - Morphine, papaverine, codeine, narcotine, thebaine
 - Morphine, papaverine, narcotine, codeine, thebaine
- Allethrin, a synthetic allyl is homologue of
 - Cinerin-I
 - Pyrethrin-I
 - Cinerin-II
 - Pyrethrin-II
- Pallets are used in drug stores to
 - Transport horizontally
 - Cold storage
 - Secure storage
 - Stacking at ground level or vertically on shelves
- Sodium valproate is known to cause in newborn
 - Virilization of female foetus
 - Spine bifida
 - Hypoplastic phalanges
 - Fetal death
- Tetracyclines are known to cause which of the birth defects in the foetus
 - Foetal goiter
 - Discoloured and deformed teeth
 - Spina bifida
 - Virilization of female foetus
- Crystalluria is a side effect associated with
 - Erythromycin
 - Streptomycin
 - Chloramphenicol
 - Sulfonamide
- Which of the following drugs has a narrow therapeutic window
 - Sulfadiazine
 - Verapamil
 - Digoxin
 - Tetracycline
- Inadequacy of hepatic drug metabolizing systems in newborns leads to gray baby syndrome. Which of the following antibiotics causes it
 - Streptomycin
 - Erythromycin
 - Tetracycline
 - Chloramphenicol
- Match the following

(A) 	(1) Gabapentin
(B) 	(2) Carbamazepine
(C) 	(3) Trimethadione
(D) 	(4) Ethosuximide

Codes:

	A	B	C	D
(a)	1	2	3	4
(b)	2	1	4	3
(c)	3	1	4	2
(d)	4	2	1	3

137. The study adverse drug reaction or monitoring the adverse events is the concern of the field known as

- (a) Pharmacotherapeutics
- (b) Pharmacovigilance
- (c) Pharmacoeconomics
- (d) Idiosyncrasy

138. Factors influencing drug absorption includes all EXCEPT

- (a) pH of the stomach
- (b) Presence of food in GIT
- (c) Solubility of the drug
- (d) Protein binding

139. Drug used as anti-inflammatory agent is

- (a) Allopurinol
- (b) Diclofenac sodium
- (c) Colchicine
- (d) TNF

140. The mechanism of action of Benzodiazepine is

- (a) Mediated through GABA receptor and chloride channel activation
- (b) Mediated through hyperpolarization
- (c) Mediated through chloride channel opening
- (d) Mediated through GABA receptor and deactivation of chloride channel

141. Under BCS class I drug are having

- (a) High solubility and permeability
- (b) Low solubility and permeability
- (c) High solubility and low permeability
- (d) Low solubility and high permeability

142. In the bioequivalence studies parallel studies may be required if the drug has

- (a) Long half-life
- (b) Short half-life
- (c) Low solubility
- (d) High permeability

143. Emulsion made with tween are usually

- (a) Oil in water type
- (b) Water in oil type
- (c) Reversible type
- (d) Clear

144. Manufacturing of aerosol involves

- (a) Gas filling
- (b) Pressure filling
- (c) Compressed gas filling
- (d) All of these

145. Progesterone injection BP is a sterile solution in

- (a) Water
- (b) Ethyl alcohol
- (c) Propylene glycol
- (d) Glycerol

146. The HLB value for W/O emulsifying agent is

- (a) 1-3
- (b) 3-8
- (c) 7-9
- (d) 8-16

147. The system which release the drug in predetermined rate is

- (a) Controlled release
- (b) Sustained release
- (c) Long acting
- (d) Repeat action

148. Simple syrup contains..... % w/v of sucrose

- (a) 66.7
- (b) 76.7
- (c) 86.7
- (d) 50

149. Bioavailability is expressed as

- (a) $\frac{AUC_{Oral}}{AUC_{IV}}$
- (b) $\frac{AUC_{IV}}{AUC_{Oral}}$
- (c) $\frac{AUC_{Oral}}{AUC_{SC}}$
- (d) $\frac{AUC_{SC}}{AUC_{Oral}}$

150. The chemical penetration enhancer used in transdermal drug delivery system is

- (a) Acetamide
- (b) Propylene glycol
- (c) Span 20
- (d) All of these

151. Example for venous vasodilator is

- (a) Minoxidil
- (b) Nimodipine
- (c) Nitrates
- (d) Acetyl choline

152. A drug which contains chlorine and aniline group is

- (a) Diclofenac
- (b) Ibuprofen
- (c) Indomethacin
- (d) Sulindac

153. Salbutamol is

- (a) β_1 receptor stimulant
- (b) α_1 receptor stimulant
- (c) β_1 receptor blocking agent
- (d) α_1 receptor blocking agent

154. Carbamazepine has

- (a) Phenothiazine ring
- (b) Piperazine ring
- (c) Triketo Pyridine ring
- (d) None of these

155. Chemical name of Pentobarbitone is

- (a) 5-ethyl-5(1-methyl butyl)
- (b) 5-ethyl-5(1-cyclohexen-1-yl)
- (c) 4-ethyl-5(1-methyl butyl)
- (d) 4-ethyl-5(1-cyclohexen-1-yl)

156. The use of Clonidine hydrochloride is

- (a) Local anesthetic
- (b) Diuretic
- (c) Antihypertensive
- (d) Sedative

157. Theophylline is

- (a) 1, 3-dimethyl xanthine
- (b) 2, 3-dimethyl xanthine
- (c) 3, 3-dimethyl xanthine
- (d) 1, 2-dimethyl xanthine

RAJASTHAN DRUG INSPECTOR-2012

SCAN ME

To Join FREE
Online Test

- Mini Pill contains**
 - Estrogen
 - Non-Hormonal contents
 - Progesterone
 - Estrogen and Progesterone
- Longer use of organic nitrates in Angina pectoris cause one of the following side effects**
 - Hepatotoxicity
 - Tolerance
 - Aplastic anemia
 - Nephrotoxicity
- Zafirlukast is used as anti-asthmatic acts as**
 - Prostaglandin antagonist
 - Lipoxygenase inhibitor
 - Cyclooxygenase inhibitor
 - Leukotriene receptor antagonist
- Phbem does NOT contain**
 - Phloem fibers
 - Sieve-tubes
 - Companion cells
 - Tracheids
- Group of plants of a species which have identical morphological characters but differ in their chemical nature known as**
 - Hybrids
 - Chemodemes
 - Polyploidy
 - Mutation
- Which of the following is the major cause of drug instability**
 - Oxidation
 - Photolysis
 - Hydrolysis
 - Racemization
- What is the unit of rate constant for zero order kinetics**
 - s^{-1}
 - $Mol L^{-1}s^{-1}$
 - $Mol L s^{-1}$
 - $Mol^{-1}L^{-1}s$
- Tak is used as glidant in composition of**
 - 5%
 - 10%
 - 15%
 - 20%
- The surface material from a tablet that is sticking to and being removed from the tablet's surface by a punch is known as**
 - Capping
 - Lamination
 - Sticking
 - Picking
- Zeatin**
 - Auxin
 - Gibberellin
 - Cytokinin
 - Abscisic acid
- Cap Aloe is**
 - Aloe barbadensis*
 - Aloe perryi*
 - Aloe vera*
 - Aloe ferox*
- Most toxic constituent of Red Squill is**
 - Scillaren A
 - Scillaren B
 - Scilliroside
 - Glucoscillaren
- Rutin is rhamnoglucoside of**
 - Scopoletin
 - Hesperidin
 - Esculetin
 - Quercetin
- Castor oil is**
 - Nondrying oil
 - Semi drying oil
 - Drying oil
 - Super drying oil
- Animal wool fat is**
 - Fat
 - Lipid
 - Wax
 - Fixed oil
- Hyoscyamus is**
 - Belladonna
 - Henbane
 - Stramonium
 - Duboisia
- Murexide test is used for identification of ___ Alkaloid**
 - Purine
 - Tropane
 - Quinoline
 - Indole
- Gas sterilization is done by using which gas**
 - Ethylene oxide
 - Formaldehyde
 - Nitrous oxide
 - Acetaldehyde
- Diazotization titration is not used for**
 - Pyrimethamine
 - Sulphadiazine
 - Sulfamethoxazole
 - Thiamine HCl
- In gas chromatography column length is**
 - 5-10 meter
 - 1-4 meter
 - 10-15 meter
 - 15-20 meter
- What is the unit of specific conductance**
 - Ohm
 - Mho
 - $Ohm cm^{-1}$
 - $Mho cm^{-1}$

UPSC DRUG INSPECTOR-2011

SCAN ME

To Join FREE
Online Test

- 1. Assume that for a digoxin, the therapeutic range is cited as $C_{avg} 5.5 = 0.82$ mg/ml. If the patient is assumed to have an estimated digoxin $t_{1/2}$ of 48 hours, how long would you wait to take serum digoxin concentration measurement and when during the dosing interval would you schedule it**
 - (a) 28 days than 3-4 hours after the dose is administered
 - (b) 14 days than 6-8 hours after the dose is administered
 - (c) 7 days than 10-14 hours after the dose is administered
 - (d) 3 days than 1-2 hours after the dose is administered
- 2. Which drug is used to prevent embolism in lungs and also during myocardial infarction**
 - (a) Human growth hormone
 - (b) Alteplase
 - (c) Epogen (EPO)
 - (d) Granulocyte macrophage colony stimulating factor (GM-CSF)
- 3. Which enzyme is used by the human immunodeficiency virus (HIV) to form deoxyribonucleic acid (DNA) in the host cell**
 - (a) Restriction endonuclease
 - (b) DNA directed polymerase only
 - (c) Reverse transcriptase only
 - (d) Both (b) and (c)
- 4. For two drug products, generic and brand to be considered bioequivalent, the 90% confidence intervals about the ratio of the mean of the C_{max} and AUC values for generic/brand product must be within**
 - (a) 80%-120% of the brand product
 - (b) 80%-100% of the brand product
 - (c) 80%-85% of the brand product
 - (d) 80%-90% of the brand product
- 5. The renal clearance of inulin is used as a measurement of**
 - (a) Effective renal blood flow
 - (b) Active renal secretion
 - (c) Glomerular filtration rate
 - (d) Intrinsic enzyme activity
- 6. Which condition usually increases the rate of drug dissolution from a tablet**
 - (a) Increases in the particle size of the drug
 - (b) Use of the ionized or salt form of the drug
 - (c) Decreases in the surface area of the drug
 - (d) Use of the free acid or free base form of the drug
- 7. The amount of nitroglycerine that a transdermal patch delivers within a 24-hour period will not depend on**
 - (a) Occlusive backing on the patch
 - (b) Diffusion rate of nitroglycerine from the patch
 - (c) Surface area of the patch
 - (d) Dissolution rate of nitroglycerine from the patch
- 8. A very fine powdered chemical/drug is defined as one that**
 - (a) Completely passes through a sieve #240
 - (b) Completely passes through a sieve #120
 - (c) Completely passes through a sieve #60
 - (d) Passes through a sieve #60 and not more than 40% through a sieve #120
- 9. Which equation is used to predict the stability of a drug product at room temperature from experiment at accelerated temperature**
 - (a) The Stokes equation
 - (b) The Arrhenius equation
 - (c) The Michaelis Menten equation
 - (d) The Hixson Crowell equation

HIMACHAL PRADESH DRUG INSPECTOR-2011

SCAN ME



To Join FREE
Online Test

- Where is the Institute of Himalayan Bio-resource Technology situated at
 (a) Shimla (b) Nahan
 (c) Bilaspur (d) Palampur
- In which District 'Kol Dam' is located
 (a) Kangra (b) Bilaspur
 (c) Mandi (d) Chamba
- When was Mandi and Suket 'Riyasat' merged to create Mandi District
 (a) 12th Sept 1966 (b) 25th April 1958
 (c) 15th April 1948 (d) 1st Jan 1950
- Which District covers only 2.01% area of Himachal Pradesh
 (a) Hamirpur (b) Solan
 (c) Mandi (d) Una
- Which is the estimated hydro electricity potential of Himachal Pradesh
 (a) 20,000 MW (b) 30,000 MW
 (c) 28,000 MW (d) 40,000 MW
- In the memory of Rani Naina Devi, which 'Mela' is held in Himachal Pradesh
 (a) Renuka Mela (b) Holi Mela
 (c) Hamir Mela (d) Suhi Mela
- How many percent of area of Himachal Pradesh is under thick forest
 (a) 50.77% (b) 72.87%
 (c) 63.9% (d) 48.90%
- What is the estimated production capacity of Kol Dam
 (a) 800 MW (b) 1000 MW
 (c) 1200 MW (d) 450 MW
- The Shivalik hills are at an attitude of about above sea level
 (a) 600 meter (b) 800 meter
 (c) 1200 meter (d) 700 meter
- Capacity of Chamera dam hydroelectric power project is
 (a) 500 MW (b) 540 MW
 (c) 800 MW (d) 650 MW
- The Lowest layer of atmosphere is called
 (a) Stratosphere (b) Troposphere
 (c) Ionosphere (d) Exosphere
- The typical area of 'Sal' forest in the Indian Peninsular upland occurs
 (a) On the Western Ghats
 (b) Between the Tapti and the Narmada
 (c) To the north each of the Godavari
 (d) On the Malwa plateau
- First Nuclear device test was done in
 (a) Rajasthan (b) Punjab
 (c) Sikkim (d) Maharashtra
- The tide of minimum rise is called
 (a) Spring Tide (b) Neap Tide
 (c) Ebb Tide (d) None of these
- Which Indian has been elected as Judge of International Court of Justice
 (a) Man Chand Bhandari (b) Dayanand Bhandari
 (c) Dalveer Bhandari (d) J.S. Verma
- Which type of Industry is mostly found in Bangladesh
 (a) Fishing (b) Tea
 (c) Jute based (d) None of these
- Jwala Gutta is a player of
 (a) Squash (b) Badminton
 (c) Cricket (d) Tennis
- Which of the following countries is known as Island of Cloves
 (a) Zanzibar (Africa) (b) Kerala (India)
 (c) Kenya (Africa) (d) Nassau (Bahamas)
- At the equator the duration of a day is
 (a) 16 hours (b) 12 hours
 (c) 10 hours (d) $12\frac{1}{2}$ hours

GUJARAT DRUG INSPECTOR-2011

SCAN ME

To Join FREE
Online Test

- On cancellation of manufacturing license, the loan license is
 - Cancelled
 - Suspended
 - Temporary suspended
 - None of these
- Drug retail sale licenses are issued by
 - Drugs controller of India
 - Union health minister
 - Drug controller authority of the states
 - Director of Health Services
- The record for the drugs having date of expiry should be preserved for a period of at least
 - 5 Years
 - 2 Years
 - 1 Year
 - 3 Years
- Which type of trichomes is present in ashwagandha
 - Branched
 - Lignified
 - Glandular
 - None of these
- Chota-chand is synonym for
 - Rauwolfia serpentina*
 - Rauwolfia densiflora*
 - Rauwolfia perakensis*
 - Rauwolfia tetraphylla*
- How can we detect the rhizome from the root of the 'Rauwolfia'
 - By the presence of small central pith
 - By the absence of small central pith
 - By the presence of vascular bundle
 - None of these
- Ergotoxine group of alkaloid is/are mixture of

[1] Ergocristine	[2] Ergocornine
[3] Ergocryptine	[4] Ergometrine

 - 1, 2 and 3
 - 2, 3 and 4
 - 1, 2 and 4
 - None of these
- A disease called 'stripe canker' is connected with which of the following drugs

(a) Nux vomica	(b) Rauwolfia
(c) Ashwagandha	(d) Cinchona
- If Cyanocobalamin is imported under the name of tetracycline, it will be called
 - Adulterated drug
 - Spurious drug
 - Misbranded drug
 - Substitute drug
- Ergot powder gives blue color with
 - p-dimethylamino benzaldehyde
 - o-dimethylamino benzaldehyde
 - Both (a) and (b)
 - None of these
- Neomycin is obtained from

(a) <i>E coli</i>	(b) <i>B. subtilis</i>
(c) <i>S. aeruginosa</i>	(d) <i>S. fradiae</i>
- Biological and Biotechnological products are listed in Schedule

(a) A	(b) B
(c) C and C1	(d) X
- Carbopols are polymerized from
 - Methacrylate esters
 - Acrylic acid
 - Ethylene glycol
 - Bis-phenol + phosgene
- Hard gelatin capsule of size 3 will accommodate approximately volume in ml

(a) 0.1	(b) 0.2	(c) 0.3	(d) 0.75
---------	---------	---------	----------
- The international name for small-pox vaccine is

(a) BCG	(b) DTP
(c) Variola	(d) Vibrio
- Blood flow through a capillary is described by the equation known as

(a) Langmuir	(b) Noyes-Whitney
(c) Stokes'	(d) Hilderbrand
- Compact size, low weight mass instrument is

(a) EI-TOF	(b) Maldi-Quadrupole
(c) Maldi-TOF	(d) Ion-trap

GUJARAT DRUG INSPECTOR-2010

SCAN ME

To Join FREE
Online Test

- Patients suffering from multidrug resistant tuberculosis can be treated with all of the following drugs EXCEPT
 - Tobramycin
 - Amikacin
 - Ciprofloxacin
 - Clarithromycin
- Which of the following anti-malarial drug is safe during pregnancy
 - Amodiaquine
 - Proguanil
 - Primaquine
 - Chloroquine
- Mechanism of action of Ketoconazole is
 - Inhibits ergosterol synthesis
 - Inhibits DNA gyrase
 - Inhibits dihydropteroate synthetase
 - Induces translation misreadings
- Monitoring plasma drug concentration is useful while using
 - Antihypertensive drugs
 - Levodopa
 - Lithium carbonate
 - MAO inhibitors
- Codeine differs in structure from morphine by
 - N-methyl group
 - Acetyl group at C₁ and C₆
 - OC₂H₅ group
 - OCH₃ group
- Sanguinarine belongs to the subgroup of
 - Morphinans
 - Benzyl isoquinolines
 - Phthalide isoquinolines
 - Benzophenanthrenes
- Dover powder used as a diaphoretic contains
 - Ipecac and Opium
 - Senna and Cinchona
 - Opium and Cinchona
 - All of these
- _____ is the dimmer of flavones and flavonones
 - Chalcones
 - Aurones
 - Biflavanoids
 - Dihydroflavones
- The wavelength source in NMR spectrometer is
 - Goniometer
 - Radiofrequency oscillator
 - High voltage generator
 - Klystron oscillator
- Morphine does NOT cause
 - Constriction of the pupil
 - CNS depression
 - Respiratory depression
 - Diarrhoea
- o,m,p-isomers can be differentiated on the basis of
 - Chemical Shift
 - Coupling constant
 - Extinction coefficient
 - Dipole moment
- Isotopes differ in
 - The number of protons
 - The valency number
 - The chemical activity
 - The number of neutrons
- Purity of water for injection is checked by
 - Potential testing
 - Pyrogen testing
 - Conductivity testing
 - pH Testing
- The phosphate of a metal has the formula MHPO₄. The formula of its Bromide would be
 - MBr
 - MBr₃
 - MBr₂
 - MBr₄
- Geometrical isomerism is possible in case of
 - 2-Pentene
 - Pentane
 - Propene
 - Ethene
- The IUPAC name of the compound having the formula (CH₃)₂CHCH₂Cl
 - 2 - methyl-3-chloropropane
 - 1 - chloro-3-methyl butane
 - 1 - chloropentane
 - 2- methyl-4-chlorobutane
- In mammals, the major fat in adipose tissue is
 - Triglyceride
 - Cholesterol
 - Sphingolipids
 - Phospholipids
- Ferritin is
 - Co-enzyme
 - The stored form of iron
 - Non-protein moiety
 - Enzyme

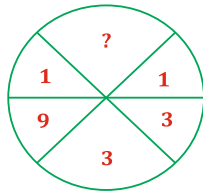
CHHATTISGARH DRUG INSPECTOR-2009

SCAN ME

To Join FREE
Online Test

- Separation of a Tablet into two or more distinct layers is called as
 - Capping
 - Mottling
 - Chipping
 - Lamination
- The polyethylene glycol ointment is an example of which type of ointment base
 - Hydrocarbon base
 - Absorption base
 - Cream base
 - Water-soluble base
- In the production facility of injectable drug products, the water for injection is stored in tanks at
 - 10°C
 - 37°C
 - 50°C
 - 80°C
- Which of the following drugs is available in the form of transdermal patch in Indian market
 - Diclofenac
 - Diazepam
 - Digoxin
 - Insulin
- For the treatment of jaundice in newly born infants the which is administered is
 - Chloramphenicol
 - Dexamethasone
 - Phenobarbitone
 - Ascorbic acid
- Which of the following micro-organisms is believed to be a cause of gastric ulcers
 - Candida
 - H. pylori*
 - E. coli*
 - Enterococcus
- Which one of the following drug preparations should be orally administered after meals
 - Tetracycline tablet
 - Enteric-coated aspirin tablet
 - Vitamin B-complex tablet
 - All of these
- Ergot alkaloids are used in the treatment of
 - Reye's syndrome
 - 3M-syndrome
 - Emesis
 - Migraine
- Which one of the following drug is used in the prophylaxis of asthma
 - Salbutamol
 - Aminophylline
 - Nedocromil
 - All of these
- Absorption of which drug is significantly increased when orally administered with high fat meal
 - Riboflavin
 - Griseofulvin
 - Ibuprofen
 - Clindamycin
- The deficiency of which vitamin cause the disease called 'Pellagra'
 - Ascorbic acid
 - Nicotinic acid
 - Pantothenic acid
 - Vitamin B₁₂
- What is the pharmaceutical use of vitamin C
 - Preservative
 - Diluent
 - Solubilizing agent
 - Antioxidant
- Which one of the following is considered as fourth generation cephalosporin antibiotic
 - Cefadroxil
 - Cefoxitin
 - Cefepime
 - Cefixime
- Which one of the following is used as antineoplastic drug
 - Goserelin
 - Cyclophosphamide
 - TICE BCG
 - All of these
- Which one of the following drugs is categorized as atypical antipsychotic drug
 - Chlorpromazine
 - Quetiapine
 - Fluphenazine
 - Trifluoperazine
- Aspirin tablet are NOT given in dengue fever because
 - GIT bleeding tendency
 - Anti inflammatory activity
 - Uricosuric activity
 - Antiplatelet activity
- Which one of the following drugs carries lowest risk of hypoglycemia
 - Glipizide
 - Chlorpropamide
 - Tolbutamide
 - None of these

75. In the following figure, missing figure is



- (a) 27 (b) 81
(c) 243 (d) 54
76. If then $a + \frac{1}{2} = \sqrt{2}$ the value of $a + \frac{1}{a^2}$ will be
(a) 0 (b) -1
(c) 2 (d) $2 + \sqrt{2}$
77. At what angle the hands of a clock are inclined at 3 o' clock
(a) 30° (b) 45°
(c) 60° (d) 90°
78. 5% of (25% of Rs. 1,600) will be
(a) Rs. 25 (b) Rs. 20
(c) Rs. 18 (d) Rs. 17.5
79. If $\sqrt{2^n} = 64$, then the value of n will be
(a) 3 (b) 4
(c) 12 (d) 6
80. 9th term of the following series will be 1, 4, 9, 16, ?
(a) 67 (b) 81
(c) 64 (d) 100
81. Which of the following two states are tying at the northern and northeast boundary of Chhattisgarh
(a) Uttar Pradesh and Jharkhand
(b) Jharkhand and Bihar
(c) Uttar Pradesh and Bihar
(d) Bihar and Odisha
82. What is the rank of Chhattisgarh in India in terms of literacy according to Census of 2001
(a) 15th (b) 18th
(c) 21st (d) 23rd
83. Which is the highest 'pat' in the Chota Nagpur Plateau in the north of Chhattisgarh
(a) Jashpur pat (b) Main pat
(c) Jarang pat (d) Jamir pat
84. Which of the following two tree species are largely found in the forests of Chhattisgarh
(a) Sal and Bija (b) Bija and Teak
(c) Sal and Teak (d) Teak and Mahua

85. From the point of view if coal deposits, what is the rank of Chhattisgarh in the country
(a) First (b) Third
(c) Fifth (d) Seventh
86. Which of the following pairs (sanctuaries of Chhattisgarh and districts) is rightly matched
(a) Udanti - Durg (b) Sitanadi- Dhamtari
(c) Pamed- Baster (d) Badalkhol - Surguja
87. By which of the following names Chhattisgarh was known in ancient times
(a) Kosala (b) Mahakosala
(c) North Kosala (d) South Kosala
88. Whom of the following was the founder of the Kalchuri dynasty in Chhattisgarh
(a) Kalingraj (b) Kamalraj
(c) Ratnadev (d) Jajakdev
89. Which of the following statements is associated with the Revolt of 1857 in Chhattisgarh
(a) The peasants of Chhattisgarh participated in this revolt
(b) The leader of this Revolt was Maharaj Singh Zamindar of Deori
(c) The hero of this Revolt was Veer Narayan Singh, Zamindar of Sonakhan
(d) This Revolt was spread throughout Chhattisgarh region
90. The following leaders of Chhattisgarh were Chief Minister of Madhya Pradesh
1. Ravishankar Shukla
2. Shyamacharan Shukla
3. Motilal Vora
4. Raja Nareshchandra
Decide their sequence on the basis of codes below Code
(a) 1, 2, 4, 3 (b) 1, 3, 2, 4
(c) 1, 4, 2, 3 (d) 1, 4, 3, 2
91. At which of the following two place in Chhattisgarh fairs of Kabir Panth are organized on Magh Purnima
(a) Damakheda and Girodpuri
(b) Damakheda and Kudurmala
(c) Damakheda and Madku Dweep
(d) Damakheda and Sonpur
92. Which of the following regions of Chhattisgarh terracotta is a famous craft
(a) Surguja (b) Abujhmad
(c) Ramgarh (d) Bastar

TAMIL NADU DRUG INSPECTOR-2009

SCAN ME

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Online Test

- Which of the following trade marked sustained release systems are based on encapsulated drug particles that will dissolve at various rates
 - Sequels
 - Spansules
 - Extentabs
 Of these

(a) I only	(b) III only
(c) I and II	(d) I, II and III
- Compartment models are often used to illustrate the various principles of pharmacokinetics. A compartment is best defined as

(a) Any anatomic entity that is capable of absorbing drug
(b) A kinetically distinguishable pool of drug
(c) Specific body organs in tissues that can be assayed for drug
(d) Anybody fluid such as blood in urine that may contain drug
- Dimethyl sulphoxide is commonly used as an excipient in transdermal patches as

(a) Adhesive
(b) Permeation enhancer of lipophilic drugs
(c) Permeation enhancer of hydrophilic drugs
(d) Release liner
- Ideal conditions for effective transdermal drug delivery would include molecular weight of _____ and pH of _____ for the saturated aqueous solution of the drug

(a) < 500 Da, 1 - 5	(b) > 500 Da, 1 - 5
(c) < 500 Da, 5 - 9	(d) > 500 Da, 5 - 9
- All of the following drugs are believed to undergo significant first-pass hepatic biotransformation, EXCEPT

(a) Phenytoin	(b) Lidocaine
(c) Morphine	(d) Nitroglycerine
- Agglomeration in aerosols can be reduced by including

(a) Anionic surfactants with HLB greater than 10
(b) Cationic surfactants with HLB less than 10
(c) Non-ionic surfactants with HLB greater than 10
(d) Non-ionic surfactants with HLB less than 10
- In a suspension, open network aggregate or floccule tends to

(a) Settle quickly and cannot be easily redispersed
(b) Settle slowly and can be easily redispersed
(c) Settle quickly and can be easily redispersed
(d) Settle slowly and cannot be easily redispersed
- The particle size range of nano-particles is

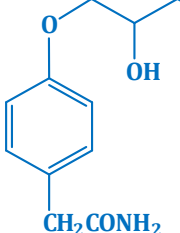
(a) 1 nm - 1 nm	(b) 1 nm - 1000 nm
(c) 1 nm - 100 nm	(d) 0 nm - 5 nm
- Transdermal drug delivery systems contain drugs meant for

(a) Local action	(b) Systemic action
(c) Both (a) and (b)	(d) None of these
- Which one of the following per oral dosage forms is likely to exhibit the longest lag time

(a) Delayed release tablet
(b) Elixir
(c) Enteric coated tablet
(d) Sustained release capsule
- The equation that describes the process of 'Passive Transport' is

(a) Noyes-Whitney equation
(b) Stokes law
(c) Fick's law
(d) Hofmeister rule
- The gelatin used in the manufacture of capsules is obtained from collagenous material by

(a) Hydrolysis	(b) Decarboxylation
(c) Acetylation	(d) Conjugation

- 104. From the given pairs of diuretics in which pair both the drugs do not require the presence of aldosterone to produce diuresis**
- (a) Mannitol and Spironolactone
 (b) Spironolactone and Triamterene
 (c) Triamterene and Amiloride
 (d) Spironolactone and Amiloride
- 105. The diuretic that is natriuretic, chloruretic, saluretic and antikaliuretic, is**
- (a) Spironolactone (b) Furosemide
 (c) Ethacrynic acid (d) Acetazolamide
- 106. Which of the given pairs of antihistamines, the pair in which both are, 'dual-acting' on histamines is**
- (a) Cetirizine and Cromolyn sodium
 (b) Azelastine and Cetirizine
 (c) Azelastine and Ketotifen
 (d) Ketotifen and Cromolyn sodium
- 107. Diazoxide and Minoxidil can be described as**
- (a) Potassium channel openers
 (b) Potassium sparing diuretics
 (c) Calcium channel blockers
 (d) Sodium channel openers
- 108. In the Lidocaine series of local anaesthetics increasing the length of the ethylene chain up to three carbon units, _____ the local anesthetic potency**
- (a) Increases (b) Abolishes
 (c) Reduces (d) Does not alter
- 109. Which of the following anti-histamines does not cross the blood brain barrier easily**
- (a) Diphenhydramine
 (b) Cyclizine hydrochloride
 (c) Chlorpheniramine maleate
 (d) Cetirizine
- 110. The fluorine in Flurazepam is present in**
- (a) 5' position (b) 3' position
 (c) 2' position (d) 4' position
- 111. Ranitidine contains _____ heterocyclic ring**
- (a) Imidazole (b) Furan
 (c) Thiazole (d) Pyridine
- 112. Aspirin can be estimated by**
- (a) Non-aqueous titration
 (b) Complexometry
 (c) Acid- base titration
 (d) Dead-stop end point method
- 113. Which of the following is anticholinergic drug**
- (a) Carbachol (b) Phenylephrine
 (c) Eucatropine (d) Procainamide
- 114. Clonidine is used in the treatment of the following disorders, EXCEPT**
- (a) Glaucoma (b) Hypertension
 (c) Arrhythmia (d) Opioids
- 115.  is the structure of**
- (a) Atenolol (b) Metoprolol
 (c) Acebutolol (d) Timolol
- 116. A central carbon atom not directly connected to any H₂ and is connected to a tertiary nitrogen through a 2-carbon unit on the other side with relatively small groups on the nitrogen is the pharmacophore of**
- (a) H₁ receptor antagonists
 (b) Narcotic analgesics
 (c) Thiazide diuretics
 (d) Butyrophenone antipsychotics
- 117. Homatropine is a semisynthetic obtained or synthesized by reacting**
- (a) Tropine and Succinic acid
 (b) Tropine and Malic acid
 (c) Tropine and Fumaric acid
 (d) Tropine and Mandelic acid
- 118. The 2-chloro substituted analogue of oxazepam is**
- (a) Lorazepam (b) Diazepam
 (c) Temazepam (d) Prazepam
- 119. Analgesic with N-Aryl anthranilic acid nucleus is**
- (a) Paracetamol (b) Meclofenamic acid
 (c) Phenyl butazone (d) Anti-pyrine
- 120. Cholinergic receptor antagonist existing as enantiomer is**
- (a) Methacholine (b) Carbachol
 (c) Acetyl choline (d) Bethanechol
- 121. Tripheniramine is used as its**
- (a) Succinate (b) Maleate
 (c) Adipate (d) Citrate

MPSC DRUG INSPECTOR -2008

SCAN ME

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- Which enzyme is used by the HIV to form DNA in host cell
(a) Endonuclease (b) Reverse Transcriptase
(c) Isomerase (d) None of these
- Mumps is an acute disease caused by _____ organism
(a) HIV (b) Paramyxovirus
(c) Polio virus (d) Hepatitis virus
- The agents that control growth of microorganisms on inanimate objects are referred as
(a) Sterilants (b) Antiseptics
(c) Antibiotics (d) Disinfectants
- Preservatives are not to be included in the formulation of injectables, administered by _____ route
(a) Intramuscular (b) Subcutaneous
(c) Intraocular (d) Intradermal
- In the LAL test cells are used for the detection of pyrogen
(a) Plasma (b) Lymphocyte
(c) Red blood (d) Amoebocyte
- Nandu remembers that Sachin's birthday is certainly after 18th August but not after 22nd August. Meeta certainly remembers that Sachin's birthday is before 20th August and after 17th August. If both of them correct, then when is Sachin's Birthday
(a) 19 (b) 22
(c) 21 (d) 20
- Which one of the following is NOT a Sexually Transmitted Disease (STD)
(a) Gonorrhoea (b) Syphilis
(c) Chancroid (d) Hepatitis
- In an autoclave, sterilization by moist heat is carried out at
(a) 160°C for 1 hour
(b) 180°C for 30 minutes
(c) 121°C and 15 psi pressure for 15 minutes
(d) 100°C and 10 psi pressure
- The limit test for acid-insoluble ash gives
(a) Inorganic impurities (b) Organic impurities
(c) Siliceous impurities (d) None of these
- Which of the following equations is useful in calculating shelf life of pharmaceuticals in accelerated stability testing
(a) Noye's-Whitney equation
(b) Gibb's Helmholtz equation
(c) Arrhenius equation
(d) Stokes equation
- Drug sample taken by the drug inspector for analysis is sent to
(a) Drug controller
(b) Chief inspector
(c) Government analyst
(d) Public testing Laboratory
- Central Register of pharmacists is maintained by
(a) State Health Ministry
(b) Pharmacy Council of India
(c) State Pharmacy Council
(d) Drug Controller of India
- The drug _____ is not included in the first schedule of DPCO
(a) Rifampicin (b) Paracetamol
(c) Aspirin (d) Vitamin C
- A local anaesthetic agent suitable only for injection is
(a) Tetracaine (b) Benzocaine
(c) Dibucaine (d) Procaine
- In a person infected with HBV, the first virological marker detectable in serum is
(a) HBsAg (b) HBcAg
(c) HBeAg (d) Anti-HBs

132. If in the examination hall, you find that the question paper is too tough to be answered satisfactorily by you, the best thing to do for you is to

- Tell the examiner that the questions are out of course
- Provoke the candidates to walk out of the examination hall
- Try to know something from your neighbor
- Try to solve the questions as much as you know with a cool head

133. Schedule V of D and C Act gives the standards for

- Patent and proprietary medicines containing vitamins
- Cosmetic preparations
- Disinfectant fluids
- Contraceptives

134. Chargaff's rule of base equivalence for DNA states that

- | | |
|---------------------|---------------------|
| (a) $A + T = G$ | (b) $T + G = T + C$ |
| (c) $A + C = T + G$ | (d) $C + A = D + E$ |

135. Choose the one which is different from the rest three

- | | |
|--------|--------|
| (a) 7 | (b) 15 |
| (c) 31 | (d) 57 |

136. Which letter will replace the question mark (?)
J L N P R T ?

- | | |
|-------|-------|
| (a) S | (b) U |
| (c) V | (d) W |

137. Which of the following pollutants produces pulmonary oedema and death

- | | |
|--------------------|---------------------|
| (a) Carbon dioxide | (b) Carbon monoxide |
| (c) Sulfur dioxide | (d) Ozone |

138. Multiple, superficial grouped erosions over genitals are due to

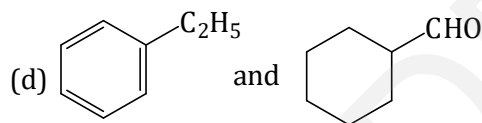
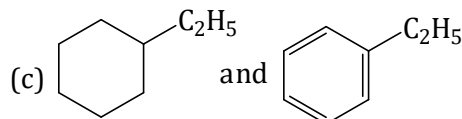
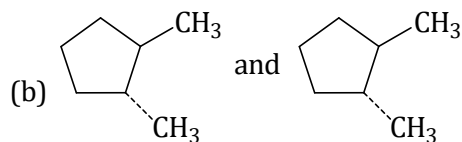
- | | |
|-------------------------|----------------------|
| (a) Chancroid | (b) Syphilis |
| (c) Condyloma acuminata | (d) Herpes genitalis |

139. Vitamin K is necessary for

- Prevention of rickets
- Formation of prothrombin
- Prevention of night blindness
- Formation of DNA

140. Which of the following pair indicates isomers

- $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$ and $\text{CH}_3\text{CH}_2\text{CH}_3$



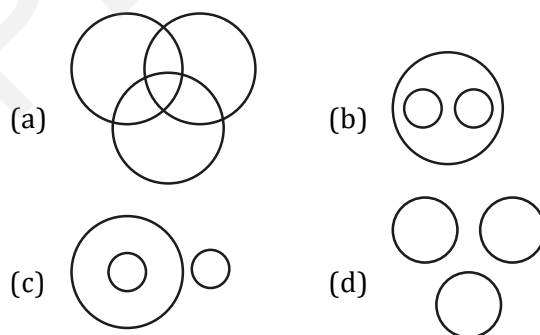
141. HIV infection predominate in India is

- | | |
|------------|------------|
| (a) HIV 1a | (b) HIV 1b |
| (c) HIV 1c | (d) HIV 1e |

142. Which of the following is NOT a type of industrial Intellectual Property

- | | |
|---------------|------------------------|
| (a) Patents | (b) Trademarks |
| (c) Copyright | (d) Industrial Designs |

143. Find out which of the alternative indicates the correct relationship between the given words:
Triangle four sided figure square



144. Which of the following does NOT belong to 5-alpha series

- | | |
|------------------|----------------|
| (a) Androgens | (b) Estrogens |
| (c) Progesterone | (d) Bile acids |

145. Baker's yeast is the common name for

- Bacillus subtilis*
- Lactobacillus acidophilus*
- Saccharomyces cerevisiae*
- Candida albicans*

146. DHO (District Health Officer) is responsible for enforcement of one of the following

- NAMP - National Anti-malaria Programme
- NLEP - National Leprosy Eradication Programme
- NMHP - National Mental Health Programme
- NWSS - National Water Supply and Sanitation



DRUG INSPECTOR

SECTION-II

MODEL PAPERS With Answer Key

- ✓ 10 Model Paper for Practice
- ✓ According to Drug Inspector Examination

10
PAPERS



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MODEL PAPER-1

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- In preformulation study, which technique is used to determine the atomic and molecular structure of a crystal**
 - Differential Scanning calorimetry
 - Fourier transform infrared
 - Counter current chromatography
 - X-Ray Diffraction
- Which of the following parenteral container material shows the highest Gas permeation**
 - Polypropylene
 - Polystyrene
 - Polyisoprene
 - Neoprene
- Match the method of sterilization with their biological indicator**

Method of Sterilization	Biological indicator
[P] Dry heat	I. <i>Bacillus pumilus</i>
[Q] Moist heat	II. <i>Bacillus subtilis var niger</i>
[R] Filtration	III. <i>Pseudomonas diminuta</i>
[S] UV radiation	IV. <i>Bacillus stearothermophilus</i>

 - [P]-[II], [Q]-[IV], [R]-[I], [S]-[III]
 - [P]-[II], [Q]-[IV], [R]-[III], [S]-[I]
 - [P]-[II], [Q]-[I], [R]-[III], [S]-[IV]
 - [P]-[IV], [Q]-[II], [R]-[I], [S]-[III]
- A synthetic sweetening agent which is approximately 200 times sweeter than sucrose**
 - Saccharin
 - Aspartame
 - Cyclamate
 - Sorbitol
- Which of the following surfactant are mostly used as principle surfactant because of their superior foaming properties and low cost**
 - Non-anionic
 - Cationic
 - Anionic
 - Amphoteric
- Which of the following compound is prohibited in preparation of baby powder**
 - Boric acid and zinc stearate
 - Cetyl and stearyl alcohol
 - Only Boric acid
 - Undecylenate
- According to Schedule P, the life period of Insulin injection is**
 - 24 months
 - 12 months
 - 18 months
 - 6 months
- One of the following is not a qualification criterion for government analyst**
 - Associateship diploma of the Institution of Chemists (India) and 3 year's experience
 - A post graduate in medicine or science or pharmacy with 3 year's experience
 - A graduate in medicine or science or pharmacy or pharmaceutical sciences with 5 year's experience
 - A diploma holder in pharmacy with 7 year's experience
- Select the correct statement regarding Kinematic viscosity**
 - The relative increase in the viscosity of the dispersion over that of the solvent alone
 - Viscosity divided by the density of the liquid
 - Unit is stokes and centistokes
 - Unit is poise

Choose the correct combination

 - P, Q and S are correct but R is incorrect
 - P and R are correct but Q and S are incorrect
 - Q and R are correct but P and S are incorrect
 - All P, Q, R and S are correct
- When one molecule with a permanent dipole repels another molecule's electrons are**
 - Van Der Waals force
 - Keesom force
 - London force
 - Debye force



- Which of the following model of machine is used for capsule dedusting and polishing
 - Erweka KEA
 - Rotosort
 - Zanasi
 - Osaka
- For the manufacture of aerosol containers, materials must withstand pressures as high as
 - 130 to 150 psig at 130°F
 - 140 to 180 psig at 130°F
 - 140 to 170 psig at 120°F
 - 120 to 140 psig at 120°F
- Study the following statements


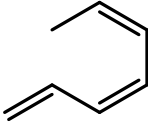
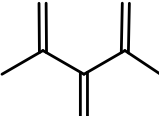

[P] Fixatives in perfumes decrease rate of evaporation

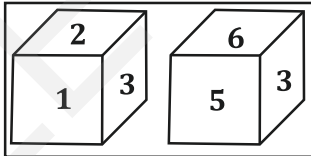
[Q] Astringent is main ingredient in antiperspirant

[R] Melanin protects breakdown of bones

[S] Hard water contains a lot of calcium and potassium salt

Choose the CORRECT combination of statements

 - [P] and [Q] are correct
 - [R] and [S] are correct
 - [P] and [S] are correct
 - [Q] and [R] are correct
- What is the IP specification for solubility of slightly soluble compounds
 - 1 part in 10-30 parts of solvent
 - 1 part in 30-100 parts of solvent
 - 1 part in 100-1000 parts of solvent
 - 1 part in 1-10 parts of solvent
- Which of the following is an example of Cross conjugation
 - 
 - 
 - 
 - 
- Which detector is used in gas chromatography for halogen containing compounds specifically
 - Katharometer
 - Electron capture detector
 - Flame ionization detector
 - Thermal conductivity detector
- Which one is di phenyl butyl piperidine derivative atypical antipsychotic agent
 - Molindone
 - Haloperidol
 - Pimozide
 - Thioridazine
- Which test is used to used only with containers that have been exposed to sulfur dioxide fumes under controlled humidity conditions
 - Pyrogen test
 - Water Attack test
 - Bubble-point test
 - Leak test
- The Franz diffusion cell which is used for the evaluation of transdermal drug delivery systems consists of
 - 1 chamber
 - 2 chamber
 - 3 chamber
 - None of these
- Listed below are the chemical tests used to identify some groups of phytoconstituents. Identify the test for the detection of the purine alkaloids
 - Keller-Kiliani Test
 - Murexide Test
 - Shinoda Test
 - Vitali-Morin Test
- IVIVC utilizes the principles of a single point correlation
 - Level A
 - Level B
 - Level C
 - Level D
- If the given drug is absorbed by passive diffusion what will be its absorption kinetics
 - Zero order
 - First order
 - Second order
 - Pseudo-zero order
- What will be the AUC value of lidocaine if the administered dose is 0.2 g and the total body clearance is 45 L/h
 - 9000 h.mg/L
 - 9.00 h.mg/L
 - 0.0044 h.mg/L
 - 4.44 h.mg/L

71. Mayer's test does NOT give positive result with
 (a) Areca nut (b) Colophony
 (c) Opium (d) Belladonna
72. Aldosterone antagonists are NOT useful in the treatment of
 (a) Hypertension
 (b) Congestive heart failure
 (c) Hirsutism
 (d) Gynaecomastia
73. Vigabatrin is a GABA analogue that potentiates action of GABA in the brain because it
 (a) Binds to GABA receptor and acts as agonist
 (b) Inhibits GABA transaminase
 (c) Blocks NMDA receptor via the glycine binding site
 (d) Inhibits neuronal reuptake of GABA from synapses
74. Quinine differs from cinchonidine in its structure by having
 (a) One Hydroxyl group (b) One Methoxy group
 (c) One Methyl group (d) One Epoxide group
75. Uridine diphosphate glucose (UDPglucose) with the alcoholic or phenolic group of a second compound. Such glycosides, sometimes called
 (a) C-glycosides (b) S-glycosides
 (c) O-glycosides (d) N-glycosides
76. *Bacillus subtilis* is used in assay of which antibiotics
 (a) Penicillin (b) Cephalosporin
 (c) Vancomycin (d) Streptomycin
77. Head quarter of Bureau of Indian Standard (BIS) is situated in
 (a) Kolkata (b) Chennai
 (c) Mumbai (d) New Delhi
78. Kjeldahl analysis is an acid-base titrimetric method for determining the amount of _____ in organic compounds
 (a) Water (b) Carbon
 (c) Nitrogen (d) Sulphur
79. In IR spectra, C-H stretching of aldehyde at
 (a) $2850-2750\text{ cm}^{-1}$ (b) $1750-1725\text{ cm}^{-1}$
 (c) $2250-2150\text{ cm}^{-1}$ (d) 2100 cm^{-1}
80. Limit test of iron based on reaction iron interact with _____ in the presence of _____ and ammoniacal alkaline solution
 (a) Chloride, Silver nitrate
 (b) Barium sulphate, Dil. Hydrochloric acid
 (c) Thioglycolic acid, Citric acid
 (d) Iron, Hydrogen sulphide
81. A woman introduces a man as the son of the brother of her mother. How is the man related to the woman
 (a) Nephew (b) Son
 (c) Cousin (d) Uncle
82. Which of the following are physical devices of a computer
 (a) Hardware (b) Software
 (c) System Software (d) Package
83. Which digit will appear on the face opposite to the face with number 4

 (a) 3 (b) 5 (c) 6 (d) 2/3
84. Select the most appropriate Antonym of Modest
 (a) Unhappy (b) Conceited
 (c) Sullen (d) Glum
85. In the series 2, 6, 18, 54, what will be the 8th term
 (a) 4370 (b) 4374
 (c) 7443 (d) 7434
86. In the following question, select the related word from the given alternatives
 Player: Team :: Minister: ?
 (a) Army (b) Solar System
 (c) Council (d) Crowd
87. Who has addressed the India-Sri Lanka Business Summit
 (a) Piyush Goyal (b) Nirmala Sitharaman
 (c) Rajnath Singh (d) S Jaishankar
88. Where is located 'Indian Diamond Institute' in India
 (a) Rajkot (b) Surat
 (c) Ahmedabad (d) Vadodara
89. In a certain code 'CALANDER' is written as 'CLANAEDR' how 'CIRCULAR' is written in that code
 (a) CRICUALR (b) ICCRLURA
 (c) CIRUCLAR (d) CRIUCALR



- Under the Drugs Prices Control Order 2013, Maximum retail price of scheduled formulation is calculated by**
 - Ceiling price + Local taxes
 - Retail price + Local taxes
 - Average price + Local taxes
 - Minimum price + Local taxes
- Which of the following statements about lispro-insulin are true**

(P) Action is faster and short in duration than regular insulin

(Q) It is given 15 minutes prior to meal

(R) Source is lamb

(S) Action is faster and of longer duration than regular insulin

 - P and Q are true R and S are false
 - P and S are true Q and R are false
 - P is true Q, R and S are false
 - P and R are true Q and S are false
- In Gilles de la Tourette's syndrome which drug is used**
 - Halothane
 - Haloperidol
 - Sulpiride
 - Clozapine
- In State Pharmacy Council all following are ex-officio members, EXCEPT**
 - President of India
 - Chief Administrator Medical Officer of State
 - The Officer in Charge of Drug Control Organization
 - Government Analyst
- Zingiber officinale consist the chemical constituents**
 - β -Phellandrene, Carvone, Limonene
 - β -Phellandrene, Camphene, Cineole, Borneol
 - Quercetin, Camphene
 - Eugenol, Ester
- X-ray diffraction (XRD) is a technique where compounds diffract (scatter) the X-rays of wavelength ranging from**
 - 10^{-2} to 10^{-4} cm
 - 10^{10} to 10^{20} cm
 - 10^{-6} to 10^{-10} cm
 - None of these
- A high level of personal hygiene should be followed and observed by all those concerned with _____ processes**
 - Manufacturing
 - Transporting
 - Warehousing
 - None of these
- Ivermectin is used for the treatment of**
 - Filariasis
 - Ascariasis
 - Taeniasis
 - Hookworm infestation
- Bacopa monnieri plant belongs to the family**
 - Scrophulariaceae
 - Leguminosae
 - Polygonaceae
 - Rubiaceae
- Which of the following causes misreading of m-RNA code and affect permeability**
 - Vancomycin
 - Amphotericin B
 - Aminoglycosides
 - Erythromycin
- Which drug probably acts by inhibiting influx of Ca^{2+} from endolymph into the vestibular sensory cells which mediates labyrinthine reflexes**
 - Meclizine
 - Doxylamine
 - Prochlorperazine
 - Cinnarizine
- Match the parts of tablet punching machines with their corresponding functions**

PART	FUNCTION
P. Punches	I. Guide the movement of the punches
Q. Camtrack	II. Hold upper and lower punches
R. Turrets	III. Used for the compression of granules with die
S. Die table	IV. Portion holding the die

 - P-I, Q-II, R-III, S-IV
 - P-III, Q-I, R-II, S-IV
 - P-II, Q-III, R-I, S-IV
 - P-III, Q-IV, R-II, S-I

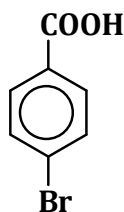
MODEL PAPER-4

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1. The sample taken by the drug inspector for the purpose of test or analysis is sent to the government analyst by registered post or by hand in a sealed packet with a memorandum in addressed to the government analyst
 - (a) Form 18
 - (b) Form 1
 - (c) Form 2
 - (d) Form 16
2. Acid-fast organism is seen in the sputum of a 48 yrs old alcoholic man. A test to confirm whether he needs long- term multidrug therapy for tuberculosis is
 - (a) Chest X-rays
 - (b) Ziehl-Neelsen stain of the sputum
 - (c) Sputum cytology
 - (d) Mycobacterial cultures of the sputum
3. The dissolution rate of drugs from tablets may be increased by
 - (a) Increasing the compression stress during tableting
 - (b) Increasing the concentration of lubricant
 - (c) Increasing the concentration of disintegrant
 - (d) Film-coating tablets with ethyl cellulose
4. All new prescription only medicines must be issued with a marketing authorization from the MHRA before they can
 - (a) Undergo phase I clinical trials
 - (b) Undergo phase III clinical trials
 - (c) Be advertised to the public
 - (d) Be advertised to prescribers
5. Which of the following is INCORRECT match of excipients are employed in tablets for the stated reasons
 - (a) Lactose - as a diluent
 - (b) Sucrose - as a binder
 - (c) Hydroxypropyl methylcellulose - as an enteric coating
 - (d) Polyethylene glycol - as a lubricant
6. Regarding the hard gelatin capsule, which of the following statements are TRUE
 - (a) Moisture content of capsule shell ranged between 6% and 10%
 - (b) Capsules should be used for highly efflorescent or deliquescent materials
 - (c) Thickness of the capsule wall is controlled by the viscosity of the gelatin solution and the speed and time of dipping
 - (d) Hard gelatin capsule shells are prepared using a polymerization process
7. Regarding emulsions, which of the following statements are TRUE
 - (a) Multiple emulsions are more stable than primary emulsions
 - (b) Water in oil emulsions is commonly administered orally
 - (c) Oil in water emulsions is stable following dilution with water
 - (d) Dispersed globules of the internal phase do not possess a zeta potential
8. Schedule J of the Drugs and Cosmetics Act and Rules gives
 - (a) List of substances that are required to be used only under medical supervision
 - (b) List of drugs that are sold by retail only on prescription by an RMP
 - (c) List of diseases or ailments which a drug may not claim to cure
 - (d) None of these
9. The following are manufacturing facilities required for production of solid dosage forms EXCEPT
 - (a) Material handling
 - (b) Chemical weighing
 - (c) Tablet blending and granulation
 - (d) Sterile filling material

63. Calculate the absorption maximum for the following compound



- (a) 245 m μ (b) 235 m μ
(c) 255 m μ (d) 275 m μ

64. Choose the CORRECT statement regarding UV spectroscopy

Statement I: Absorbance v/s Concentration graph used in UV spectroscopy

Statement II: Type of sample used in UV spectroscopy is liquid and gas sample

Choose the CORRECT combination

- (a) Statement – I is TRUE and statement – II is false
(b) Statement – I, II both are TRUE
(c) Statement – I, II both are false
(d) Statement – I is false and statement – II is TRUE

65. Ionization technique MALDI is

- (a) Matrix assisted laser desorbed ionization
(b) Molecule associated laser desorbed ionization
(c) Matrix assisted light dependent ionization
(d) Molecule assisted light dependent ionization

66. Cyanide poisoning kit contains followings EXCEPT

- (a) Sodium nitrite (b) Amyl nitrite
(c) Sodium bicarbonate (d) Sodium thiosulphate

67. Compound A decomposes to form B and C the reaction is first order. At 25°C the rate constant for the reaction is 0.450 s⁻¹. What is the half-life of A at 25°C

- (a) 2.54 seconds (b) 3.54 seconds
(c) 1.54 seconds (d) 0.54 seconds

68. Name the organs where T- lymphocyte maturation occurs and where B- lymphocyte maturation occurs respectively

- (a) Bone marrow and cerebrum
(b) Spleen and thymus
(c) Thymus and bone marrow
(d) Adenoids and lymph vessel

69. Glucagon is secreted by which cell of pancreas and what is its mechanism of action

- (a) β - cell, It increases the action of insulin
(b) α - cell, It opposes the action of insulin
(c) β - cell, It decreases the action of insulin
(d) α - cell, It works as agonist for the action of insulin

70. Which of the following is a only immunoglobulin secreted by Seromucinous glands

- (a) IgA (b) IgE (c) IgG (d) IgM

71. Aortic arch syndrome is also known as

- (a) Takayasu's Arteritis
(b) Wegener's Granulomatosis
(c) Kawasaki's Disease
(d) Raynaud's Disease

72. Karyolysis is associated with which one of the following statements

- (a) Condensation and clumping of nucleus which becomes dark basophilic
(b) Nuclear fragmentation in to small bits dispersed in the cytoplasm
(c) Dissolution of the nucleus
(d) Excessive generation of free radicals

73. Select the CORRECT statement about Genetic finger printing

- (a) Fusion of sensitized lymphocytes and myelomas from different sources to produce continuous antibody-producing cell lines
(b) Technique involved in comparing the DNA components of two samples
(c) Involves using enzymes and various laboratory techniques to manipulate and isolate DNA segments of interest
(d) Laboratory technique for rapidly producing (Amplifying) millions to billions of copies of a specific segment of DNA

74. Current good manufacturing Practice (CGMP) regulations are established by

- (a) United State FDA (b) Indian FDA
(c) WHO (d) All of these

75. In Kjeldahl method for determination of nitrogen in organic compound, the nitrogen in an organic compound is converted quantitatively to which of the following

- (a) Ammonia (b) Amines
(c) Cyanides (d) None of these



- Anticoagulant acid citrate injection is required to be pyrogen free, because pyrogens are**
 - Products causing febrile reaction upon injection
 - Organic catalysts formed in living cells
 - Antigens contained in bacteria
 - Non-specific globulins
- Match the followings**

AGENT	EXAMPLE
[P] Bulk forming	[I] Polyethylene glycol
[Q] Stimulant	[II] Mineral oil
[R] Emollient	[III] Methyl cellulose
[S] Hyperosmotic	[IV] Castor oil

Choose the correct combination

 - P-III, Q-IV, R-I, S-II
 - P-IV, Q-III, R-I, S-II
 - P-III, Q-IV, R-II, S-I
 - P-II, Q-III, R-I, S-IV
- For schedule X drug use of human beings, special labelling requirement is**
 - Symbol X given in red
 - Symbol N in red displayed on left top corner of the label
 - Symbol N displayed on the left top corner of the label
 - Symbol H displayed on right top corner of the label
- Butylated hydroxytoluene (BHT) is antioxidant, it acts by**
 - Gets preferentially oxidized in place of drug
 - Blocks the oxidative reaction chain
 - Increases the effectiveness of antioxidant
 - Forms complex with catalyst responsible for oxidation
- Read the properties of the class IA - antiarrhythmic drugs**
 - Reduce automaticity of his-Purkinje fibers
 - Decrease the rate of rise and amplitude of phase 0 polarization
 - Prolong P-R and Q-T intervals
 - Facilitate inward sodium conductance during rapid depolarization

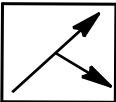
Choose the correct combination

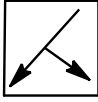
 - Only P is correct but Q, R, S are incorrect
 - R & S are correct but P & Q are incorrect
 - P & S are correct but Q & R are incorrect
 - P, Q, R are correct but S is incorrect
- Why amines absorb at higher wavelengths in comparison to alcohols**
 - Because oxygen is more electronegative than nitrogen
 - Because nitrogen is more electronegative than oxygen
 - Because nitrogen is more electropositive than oxygen
 - Because oxygen is more electropositive than nitrogen
- As per D & C Act, the label for ophthalmic ointments should bear the warning**
 - If irritation persists or increases discontinue the use and consult the physician
 - To be sold by retail on the prescription of an RMP
 - Do not apply and drive
 - Shake well before use
- Match the chemical name with their brand name**

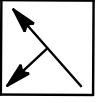
CHEMICAL NAME	BRAND NAME
[P] Colloidal silica	[I] Sta Rx 1500
[Q] Microcrystalline cellulose	[II] Avicel
[R] Directly compressible starch	[III] Emcocel
[S] Cellulose	[IV] Cab-O-Si

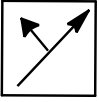
Choose the correct combination

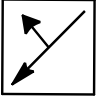
 - P-IV, Q-III, R-I, S-II
 - P-IV, Q-III, R-II, S-I
 - P-IV, Q-II, R-I, S-III
 - P-II, Q-III, R-I, S-IV

89. If in any code language NATIONAL is written as MZGRLMZO than how is JAIPUR written in that language
 (a) QZRKFI (b) PZRKFI
 (c) QZRIFK (d) QARKFI
90. If \times means \div , $-$ means \times , \div means $+$ and $+$ means $-$, then $(3 - 15 \div 19) \times 8 + 6 = ?$
 (a) 8 (b) 4
 (c) 2 (d) -1
91. Pointing towards a man is the photograph, lady said "the father of his brother is the only son of my mother" How is the man related to lady
 (a) Bother (b) Son
 (c) Cousin (d) Nephew
92. Choose the correct mirror image from alternatives A, B, C, and D of the Word/figure(X).
- 

X
- (a) 

(c) 

(b) 

(d) 
93. Karan was born on Saturday 22nd March 1982. On what day of the week was he 14 years 7 months and 8 days of age
 (a) Sunday (b) Tuesday
 (c) Wednesday (d) Monday
94. A man is facing North-West. He turns 90° in the clockwise direction, then 180° in the

- anticlockwise direction and then another 90° in the same direction. Which direction is he facing now
 (a) South (b) South-West
 (c) West (d) South-East
95. Recently, which ministry has launched the "Jal hi AMRIT" program to incentivize states/UTs to promote efficient reuse of water
 (a) Ministry of Jal Shakti
 (b) Ministry of Housing and Urban Affairs
 (c) Ministry of Urban Development
 (d) Ministry of Environment, Forest and Climate Change
96. Barnawapara wildlife sanctuary, is located in which state
 (a) Madhya Pradesh (b) Odisha
 (c) Jharkhand (d) Chhattisgarh
97. We waited until the plane
 (a) take off (b) took off
 (c) see off (d) take over
98. The girl, along with her friends
 (a) are going to a party to night
 (b) would be going to a party to night
 (c) gone to a party to night
 (d) is going to a party to night
99. पुस्तक कौन-सा शब्द है
 (a) तद्भव (b) तत्सम
 (c) देशज (d) विदेशज
100. निम्नलिखित में से घर का पर्यायवाची शब्द नहीं है
 (a) पावक (b) सदन
 (c) शाला (d) निकेतन

ANSWER KEY

1-a	2-c	3-b	4-b	5-d	6-a	7-a	8-c	9-a	10-b
11-b	12-a	13-a	14-c	15-b	16-a	17-b	18-d	19-a	20-d
21-b	22-b	23-a	24-d	25-b	26-b	27-b	28-b	29-a	30-c
31-d	32-c	33-b	34-b	35-c	36-d	37-d	38-a	39-b	40-d
41-d	42-b	43-a	44-a	45-d	46-d	47-c	48-a	49-d	50-b
51-b	52-a	53-a	54-c	55-a	56-c	57-a	58-c	59-d	60-b
61-c	62-d	63-a	64-d	65-c	66-d	67-b	68-c	69-c	70-d
71-c	72-d	73-c	74-d	75-b	76-a	77-a	78-c	79-a	80-b
81-d	82-c	83-d	84-b	85-c	86-c	87-b	88-b	89-a	90-c
91-d	92-c	93-c	94-b	95-b	96-d	97-b	98-d	99-b	100-a




- In multi-station punching machine, the upper as well as lower punches are connected by**
 - Cams
 - Turrets
 - Wire meshes
 - Revolving belts
- Pasteur effect denotes**
 - Presence of oxygen suppressing alcohol and yeast formation
 - Presence of excess glucose suppressing alcohol and yeast production
 - Metal ions suppressing alcohol and yeast fermentation
 - High inoculum level stimulating fermentation
- The synonyms for Cresol with soap solution is**
 - Lysol's solution
 - Ringer's solution
 - Dakin's solution
 - Lugol's solution
- Antifungal activity of Flucytosine is because of**
 - Binding to ergosterol
 - Conversion to 5-fluorouracil
 - Inhibition of sterol 14- α -demethylase
 - Inhibition of ergosterol biosynthesis
- Minimum area of the shop to obtain a wholesale license to sell and stock drugs shall be**
 - Five square meters
 - Ten square meters
 - Fifteen square meters
 - Twenty square meters
- The distribution of globules is NOT uniform in an emulsion. This stage is termed as**
 - Breaking
 - Caking
 - Coalescence
 - Creaming
- Which apparatus is used to determine the dissolution of suppositories**
 - Basket type
 - Wire mesh basket
 - Paddle type
 - Cylinder type
- Weight variation limits as per IP for the tablet weight is more than 80 mg through 250 mg**
 - 10%
 - 7.5%
 - 5%
 - 5%
- Which of the following category of drugs will have small apparent volume of distribution**
 - Basic drugs
 - Acidic drugs
 - Neutral drugs
 - Non-ionic drugs
- The area under the serum concentration time curve represents the**
 - Biological half-life of the drug
 - Amount of drug that is cleared by kidneys
 - Amount of drug absorbed
 - Amount of drug excreted in the urine
- Identify the reagents used in Thalleoquin test**
 - Glacial acetic acid + Water
 - Bromine water + Conc. NH_3
 - Bromine water + Dil NH_3
 - Mercuric chloride + Alcohol
- Which ash value parameter is NOT used in Quality control of crude drugs**
 - Water insoluble
 - Acid insoluble
 - Total ash
 - Water soluble
- The time difference between drug administration and start of absorption is called as**
 - Time lag
 - Absorption phase
 - Residual curve
 - Onset of time
- A second order reaction follows pseudo-first order reaction, when the concentration of**
 - Two reactants are high
 - Two reactants are low
 - One reactant is far higher than the other reactant
 - Two reactants are equal
- Which of the following expression is CORRECT for the determination of shelf life for a first order decomposition**
 - $t_{1/2} = 0.105/k$
 - $t_{90} = 0.693/k$
 - $t_{1/2} = 0.693/k$
 - $t_{90} = 0.105/k$
- Dipole-dipole force is the interaction between pi-electron orbitals in systems is**
 - Orbital Overlap
 - Ion-Ion Interactions
 - Hydrogen Bonds
 - Van der Waals Forces

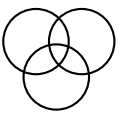
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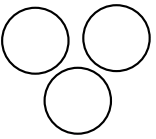
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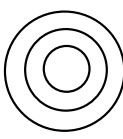
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- The containers used to package drugs may consist of several components and/or be composed of several materials. The release of an ingredient from packaging components into the actual product is best described by the term**
 - Adsorption
 - Absorption
 - Leaching
 - Permeation and porosity
- Following reagents are used in the Vitali -Morin test and gives which colour**
 - Nitric acid + 3% NaOH in methanol and gives purple colour
 - Fuming nitric acid + 3% KCl in methanol and gives yellow colour
 - Fuming nitric acid + 1% KCl in ethanol and gives yellow colour
 - Fuming nitric acid + 3% KOH in methanol and gives violet colour
- Millard reaction in tablet formulation occurs due to which of the following reason**
 - Lactose reacts with amino group of drugs in absence of metal stearate
 - Lactose reacts with amino group of drugs in presence of metal stearate
 - MCC reacts with basic group of drug protein
 - Croscarmellose reacts with acidic group of drugs
- Prohibit advertisements of drugs which makes false claim for the drug or which gives the misleading information about the drug**
 - Drugs and Magic Remedy (Objectionable advertisements) Act, 1954
 - Medicinal and Toilet Preparations Act, 1955
 - The Pharmacy Act, 1948
 - Drugs and Cosmetics Act, 1940
- In pharmacovigilance the term ADR stands for**
 - Adverse Drug Reaction
 - Adverse Dose Reaction
 - Absolute Drug Reaction
 - Absolute Dose Reaction
- Which of the following properties is desirable in a pharmaceutical suspension**
 - Caking
 - Pseudoplastic flow
 - Thixotropy
 - I only
 - III only
 - I and II only
 - II and III only
- Drugs Inspector is appointed as per the provisions of**
 - Pharmacy Act 1948
 - Drugs and Cosmetics Act 1945
 - Drugs Inspector Act 1940
 - NDPS Act 1985
- The upper critical solution temperature is defined as**
 - The maximum temperature at which two components will remain immiscible as two distinct liquids
 - The minimum temperature at which two components will remain immiscible as two distinct liquids
 - The maximum temperature at which two components remain miscible
 - The minimum temperature at which two components remain miscible
- The sugar moiety of *Digitalis purpurea* is**
 - 2, 6-deoxy allose
 - 2, 6-deoxy glucose
 - 2, 6-deoxy Rhamnose
 - 2, 6-deoxy galactose
- With regard to clinical trials of new drugs, which of the following is most CORRECT**
 - Phase I involves the study of a small number of normal volunteers by highly trained clinical pharmacologists
 - Phase II involves the use of the new drug in a large number of patients (100-5000) who have the disease to be treated
 - Phase III involves the determination of the drug's therapeutic index by the cautious induction of toxicity
 - Chemical antagonist

73. All of the following are actions of muscarinic antagonists choose the INCORRECT one
- Decreases gastric secretion
 - Prolongs A-V conduction
 - Decreases tracheobronchial secretions
 - Causes contraction of radial muscle of iris
74. In which of the following type of paper, chromatography does the mobile phase move horizontally over a circular sheet of paper
- Ascending paper chromatography
 - Descending paper chromatography
 - Radial paper chromatography
 - Ascending - descending chromatography
75. Pilocarpine nitrate is Assay by which method
- Acid base titration
 - Non aqueous titration
 - Karl Fischer titration
 - NMR
76. Antiglobulin or Coomb's test is for
- Detection of non-agglutinating antibodies (Brucellosis)
 - Detection of agglutinating antibodies
 - Detection of all type of antibodies
 - Detection of mycoplasma pneumonia
77. Which of the following is a nonselective but very potent and efficacious bronchodilator that is not active by the oral route
- Aminophylline
 - Cromolyn
 - Epinephrine
 - Ipratropium
78. Which of the following is true for HPLC detector
- Bulk property detector - UV detectors
 - Solute property detectors - Refractive index detectors
 - Bulk property detector - Fluorescence Detectors
 - Solute property detectors - UV detectors
79. In Alkaline Picrate method creatinine reacts with alkaline picrate to form which colour complex
- Violet-blue
 - Pink-purple
 - Yellowish-green
 - Orange-red
80. Which of the following combination is important in asthma
- IgE, neutrophils
 - IgE, mast cells
 - IgG, neutrophils
 - IgG, mast cells
81. Import : Export :: Expenditure : ?
- Deficit
 - Revenue
 - Debt
 - Tax
82. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to the man in the photograph
- Mother
 - Aunt
 - Sister
 - Daughter
83. Kunal walks 10 km towards North. From there he walks 6 km towards South. Then, he walks 3 km towards East. How far and in which direction is he with reference to his starting point
- 3 km West
 - 7 km West
 - 7 km East
 - 5 km North-East
84. Select from the four alternative diagrams, the one that best illustrates the relationship among the three classes: Pigeons, Birds, Dogs
- (a) 

(b) 

(c) 

(d) 
85. If the 25th of August in a year is Thursday, the number of Mondays in that month is
- 3
 - 4
 - 5
 - 6
86. A team played 40 games in a sea- son and won 24 of them. What percent of games played did the team win
- 70%
 - 40%
 - 60%
 - 35%
87. A coconut merchant finds that the cost price of 2750 coconuts is the same as the selling price of 2500 coconuts. His loss or gain will be
- 5%
 - 10% gain
 - 15% loss
 - 20% gain
88. What must be added to each term of the ratio 2: 5 so that it may equal to 5:6
- 12
 - 13
 - 65
 - 78
89. 15 men take 20 days to complete a job working 8 hours a day. The number of hours a day should 20 men take to complete the job in 12 days
- 5 hours
 - 10 hours
 - 15 hours
 - 18 hours



- Which statement is CORRECT about mechanism of antibacterial action of Cephalosporins involves**

 - Inhibition of the synthesis of precursors of peptidoglycan
 - Interference with the synthesis of ergosterol
 - Inhibition of transpeptidation reaction
 - Inhibition of beta-lactamase
- What is the primary purpose of conducting a melting point determination in pharmaceutical analysis**

 - To assess the purity of the compound
 - To determine the molecular weight of the compound
 - To evaluate the solubility of the compound
 - To study the stability of the compound
- Cosmetic preparations containing which of the following heavy metals is prohibited from import**

 - More than 2 ppm of arsenic
 - More than, 20 ppm of lead
 - More than 100 ppm of antimony
 - All of these
- Read the statements**
Statement I: Strong acid and strong base are ionized in all media, whatever it is acid or base
Statement II: Weak acids are ionized in the alkaline medium
Choose the correct combination

 - Statement I is true but statement II is false
 - Statement II is true but statement I is false
 - Statement I and II both are false
 - Statement I and II both are true
- Which of the following statements is TRUE about a nonpolar bond**

 - The bond is formed between atoms with significantly different electronegativity
 - The electrons in the bond are unequally shared between the atoms
 - The electron density around each atom is equal in the bond
 - There is a significant development of charge on one of the atoms
- Read the following statements regarding Halothane**
[P] It has primarily been used clinically as an inhalational anesthetic
[Q] It potentiates competitive neuromuscular blockers
[R] Causes respiratory depression
[S] Halothane is in under local anesthetic drug
Choose the correct combination

 - [P], [Q], [R] & [S] all are correct
 - [R] is correct but [P], [Q] & [S] are incorrect
 - [Q] is incorrect but [P], [R] & [S] are correct
 - [P], [Q] & [R], are correct but [S] is incorrect
- In quantitative analysis using UV-Visible spectrophotometry, what is the primary factor that can lead to deviations from Beer's Law**

 - High concentrations of the analyte
 - The use of a monochromatic light source
 - Constant temperature during the analysis
 - Calibration with a single standard solution
- Which of the following statements are TRUE for ginseng root**
[P] It is among the most traded plant material of Brazil
[Q] It is obtained from *Panax ginseng* and *Panax quinquefolium*
[R] It is obtained from young plants of six months to one year age
[S] It contains derivatives of protopanaxadiol

(a) P and Q	(b) R and S
(c) Q and R	(d) Q and S

84. Statements:

All roses are flowers

Some flowers are red

Conclusion:

I. Some roses are red

II. All red things are flowers

- (a) Only conclusion I follows
 (b) Only conclusion II follows
 (c) Both conclusions I and II follow
 (d) Neither conclusion I nor II follows

85. A person is facing east and turns 90 degrees to the right. Then he turns 180 degrees to his left. Which direction is he facing now

- (a) North (b) South
 (c) West (d) East

86. Bird is to Fly as Fish is to

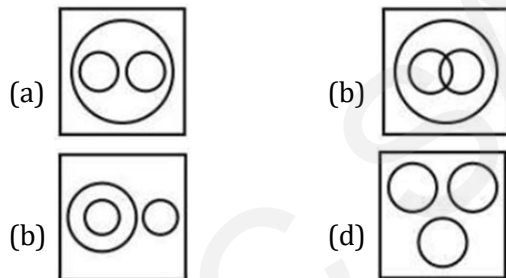
- (a) Swim (b) Walk
 (c) Crawl (d) Dive

87. DAZE is written as 41265 in a certain code. How will BOY be written in the same code

- (a) 16751 (b) 28662
 (c) 21525 (d) 41842

88. Which of the following diagrams correctly represents the relationship between the following classes

Potato, Ladyfinger, Vegetables



89. Identify the CORRECT synonym of the underlined word

He's not very optimistic about the outcome of the interview

- (a) Nervous (b) Quiet
 (c) Lively (d) Hopeful

90. Statement:

Should eating paan at public places be made punishable

Argument:

I. Yes, people eat paan and spit and makes public places dirty

II. No, Indians love paan

- (a) If only I argument is strong

(b) If only argument II is strong

(c) If both I and II are strong

(d) If neither I nor II is strong

91. In programming, what does 'looping' refer to

- (a) Repeating a set of instructions
 (b) Storing data
 (c) Comparing values
 (d) Creating functions

92. Which of the following is a type of malware

- (a) Firewall (b) Antivirus
 (c) Trojan horse (d) Router

93. Fill in the blank: He was very ____ about his achievements

- (a) Modest (b) Arrogant
 (c) Humble (d) Proud

94. What is the antonym of the word "diligent"

- (a) Hardworking (b) Lazy
 (c) Attentive (d) Careful

95. What is the theme of World Environment Day 2024

- (a) Beat Plastic Pollution
 (b) Restore Our Earth
 (c) Our Land, Our Future
 (d) Time for Nature

96. Who won the 2024 FIFA U-20 Women's World Cup

- (a) USA (b) Brazil
 (c) North Korea (d) Germany

97. Who is the current Secretary-General of the United Nations as of 2024

- (a) Ban Ki-moon
 (b) Antonio Guterres
 (c) Kofi Annan
 (d) Boutros Boutros-Ghali

98. Which city hosted the 2024 Eurovision Song Contest

- (a) London (b) Malmo
 (c) Paris (d) Berlin

99. Which country hosted the 2024 Summer Olympics

- (a) Japan (b) France
 (c) China (d) Brazil

100. The famous "Dharasana Satyagraha" was aimed at protesting against which of the following

- (a) British tax on salt (b) Rowlatt Act
 (c) Partition of Bengal (d) Simon Commission



- Brand name of carboxymethyl cellulose sodium is**
(a) Avicel (b) Nymcel
(c) Cellosize (d) Pharmasorb
- Commercially available AQUAPHOR and POLYSORB is**
(a) Absorption bases
(b) Oleaginous bases
(c) Water removable base
(d) Water soluble base
- The optimum moisture content of capsule shell ranged is**
(a) 10% (b) 12-15%
(c) 20% (d) 18%
- Select the CORRECT statement regarding Deflocculated suspension**
[P] Suspending agent settles down rapidly
[Q] Particles settle as a separately due to low particle size
[R] Suspending agent remains suspended for long time
[S] Exhibits plastic or pseudoplastic flow
Choose the CORRECT one
(a) P, Q and S are correct but R is incorrect
(b) Q and R are correct but P and S are incorrect
(c) Q and R are incorrect but P and S are correct
(d) All P, Q, R and S are correct
- Select the equation that gives the rate of drug dissolution from a tablet**
(a) Fick's equation
(b) Henderson Hasselbalch equation
(c) Noyes Whitney Equation
(d) Michaelis Menten equation
- Which class of antifungal drugs work by inhibiting squalene epoxidase**
(a) Polyenes (b) Echinocandins
(c) Allylamines (d) None of these
- Select the CORRECT statement regarding drug-binding sites on human serum albumin**
[P] Site I is also known as Tamoxifen binding site
[Q] Site II is also known as Diazepam binding site
[R] Site III is also known as Digitoxin binding site
[S] Site IV is also known as Warfarin binding site
Choose the CORRECT combination
(a) P, Q and S are correct but R is incorrect
(b) P and R are correct but Q and S are incorrect
(c) Q and R are correct but P and S are incorrect
(d) All P, Q, R and S are correct
- The characteristic toxicity of Doxorubicin is**
(a) Kidney damage (b) Liver damage
(c) Cardiomyopathy (d) Pulmonary fibrosis
- BAL (British Anti-Lewisite) is used to counter the toxic effects of**
(a) Atropine (b) Mercury
(c) Morphine (d) Barbiturates
- Spironolactone is contraindicated with which of the following drugs**
(a) Enalapril (b) Atenolol
(c) Verapamil (d) Chlorothiazide
- Which of the following electromagnetic radiation spectrum are used in ESR spectroscopy**
(a) Infra-red spectrum (b) UV spectrum
(c) Microwave (d) X-ray spectrum
- Which of the following drugs can be used to treat both constipation and diarrhea**
(a) Kaopectate (b) Parepectolin
(c) Bisacodyl (d) Polycarbophil
- The α and β cyclic forms of D- glucose are known as**
(a) Anomers (b) Epimers
(c) Enantiomers (d) Tautomerization



1. Choose the CORRECT statement regarding pKa determination
- [P] The Kozeny Carman equation provides an estimate of the ionized and unionized drug concentration at a particular pH
- [Q] The Henderson-Hasselbalch equation provides an estimate of the ionized and unionized drug concentration at a particular pH
- [R] For basic compound
- $$\text{pH} = \text{pKa} + \log \frac{[\text{ionized drug}]}{[\text{un-ionized drug}]}$$
- [S] For acidic compound
- $$\text{pH} = \text{pKa} + \log \frac{[\text{Un-ionized drug}]}{[\text{ionized drug}]}$$
- Choose the CORRECT combination
- (a) Q, R and S are correct but P is incorrect
 (b) Q and R are correct but P and S are incorrect
 (c) R and S are correct but P and Q are incorrect
 (d) All P, Q, R and S are correct
2. Indicate which of the following statements is TRUE for Oil-soluble surfactants
- (a) Have high HLB values
 (b) Are hydrophilic
 (c) Can be used as emulsifiers to produce water-in-oil emulsions
 (d) Are efficient solubilizing agents
3. In this type incompatibility, the interactions can be changed by changing the order of mixing the solutions in dilute forms
- (a) Adjusted incompatibility
 (b) Tolerated incompatibility
 (c) Delayed incompatibility
 (d) All of these
4. Read the statements regarding Sulfonamide based drugs
- (P) Mafenide not a typical sulfonamide, because a — CH₂ — bridge separates the benzene ring and the amino group
- (Q) Silver sulfadiazine used topically as 1% cream, it is active against a large number of bacteria and fungi, even those resistant to other sulfonamides, e.g. Pseudomonas
- (R) Sulfamethoxazole has slowest duration of action; t_{1/2} in adults averages 1 hours
- (S) Sulfacetamide is a highly soluble compound used in the treatment of TB
- Choose the CORRECT combination
- (a) R, S are true but P, Q are false
 (b) P, S are true but Q, R are false
 (c) Q is true but P, R are false
 (d) P, Q are true but R, S is false
5. Terfenadine is a second generation H₁ antagonist which does not have anti-cholinergic, anti-adrenergic and anti-serotonergic activity due to presence of
- (a) N-phenyl-butanol
 (b) Formation of fexofenadine as active metabolite
 (c) Absence of K⁺ channel blocking activity
 (d) All of these
6. A woman needs treatment for an upper respiratory tract infection. Six years ago, she was found to be hypersensitive to penicillin V. Cultures now reveal a strain of *Streptococcus pneumoniae* that is sensitive to all of the following drugs. Which one would be the best choice for the patient
- (a) Amoxicillin (b) Erythromycin
 (c) Cefaclor (d) Cycloacillin
7. Mechanism of action of calcitonin is
- (a) Inhibits hydroxyapatite crystal formation, aggregation, and dissolution
 (b) Raises intracellular cAMP in osteoclasts
 (c) Activates bone resorption
 (d) Inhibits macrophages

79. Which of the following plasminogen activator(fibrinolytic) can be given as bolus dose in patients with acute myocardial infarction

- (a) Urokinase
- (b) Alteplase
- (c) Reteplase
- (d) None of these

80. CDSCO work under the Ministry of



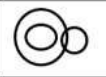
- (a) Health and Family Welfare
- (b) Chemicals and fertilizers
- (c) Science and Technology
- (d) Environment control

81. 14785 - 358 - 4158 - 9514

- (a) 755
- (b) 825
- (c) 721
- (d) 785

82. Identify the CORRECT venn diagram for the following

Building material, Cement, Wood

- (a) 
- (b) 
- (c) 
- (d) 

83. Calendar of 1992 will repeat in

- (a) 2020
- (b) 1998
- (c) 2012
- (d) 2016

84. Fifth generation computers are based on

- (a) Artificial Intelligence
- (b) Programming Intelligence
- (c) System Knowledge
- (d) VVLSI

85. "Landing" is the antonym for

- (a) Take away
- (b) Take down
- (c) Take off
- (d) Take in

86. What is the Theme of world Earth Day in 2024

- (a) Save in our planet
- (b) Planet vs Plastics
- (c) Save Water
- (d) Save the tree

87. If B shifts to the place of E, E shifts to the place of Q, and Q shifts to the place of B, then who will be second to the left of person opposite to O

- (a) Q
- (b) P
- (c) E
- (d) D

88. Three numbers are in the ratio 4:5: 6 and their average is 25. The largest number is

- (a) 42
- (b) 36
- (c) 30
- (d) 32

89. Which of the following is NOT a conjunction

- (a) And
- (b) On
- (c) But
- (d) None of these

90. Match the columns

List I

Names of instruments

- A. Anemometer
- B. Ammeter
- C. Tachometer
- D. Pyrometer

List II

The quantities they measure

- 1. Speed of rotation
- 2. High temperatures
- 3. Wind speed
- 4. Electric current
- 5. Pressure difference

	A	B	C	D
(a)	4	3	1	5
(b)	3	4	1	2
(c)	3	5	2	1
(d)	1	4	5	2

91. Which of the following is not a vector quantity

- (a) Speed
- (b) Velocity
- (c) Torque
- (d) Displacement

92. This plasma protein is responsible for blood clotting

- (a) Fibrinogen
- (b) Globulin
- (c) Serum amylase
- (d) Albumin

93. What is 348 times 265

- (a) 88740
- (b) 89750
- (c) 95700
- (d) 92220

94. Who is the minister of Health and Family Welfare in government of India

- (a) Sushma Swaraj
- (b) Nitin Gadkari
- (c) J. P. Nadda
- (d) Uma Bharti

95. The memory sizes in mainframe computers and advanced technology micro-computer are expressed as

- (a) Bytes
- (b) Kilobytes
- (c) Bits
- (d) Megabytes

96. Which of the following words most nearly means deplete

- (a) Decorate
- (b) Beg
- (c) Exhaust
- (d) Hurry

MPSC
Drug Inspector

UPSC
Drug Inspector

GUJARAT
Drug Inspector

**ANDHRA
PRADESH**
Drug Inspector

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