



## GPAT-2015

- Polymorphs in pharmaceutical solids are detected by which technique  
(a) MS (b) LC-MS (c) Solid state NMR (d) Coulter counter
- A series of  $\alpha$ -acylureido penicillin's like azlocillin, mezlocillin, and piperacillin are superior because of  
(a) Reduced acid hydrolysis (b) Increased  $\beta$ -lactamase resistance  
(c) Improved penetration through the cell envelope (d) Slow rate of metabolism
- What is the minimum age prescribed for registration of pharmacist  
(a) 17 (b) 18 (c) 21 (d) 25
- In the diagnosis of myasthenia gravis, only one of the following drugs will be used as a drug of choice  
(a) Neostigmine (b) Pyridostigmine (c) Physostigmine (d) Edrophonium
- Methyl [5-(proopylthio)-1H-benzimidazol-2-yl] carbamate is Geneva name of which of the following drug  
(a) Mebendazole (b) Albendazole (c) Thibendazole (d) Triclabendazole
- Which of the following is oil of fruit pulp  
(a) Arachis oil (b) Castor oil (c) Olive oil (d) Apricot oil
- Synthesis of aspirin involves  
(a) Methylation of COOH group (b) Methylation of OH group  
(c) Acetylation of COOH group (d) Acetylation of OH group
- Biologically active arachidonic acid is  
(a) All trans eicosatetraenoic acid (b) All cis eicosatetraenoic acid  
(c) All trans eicosatrienoic acid (d) All cis eicosatrienoic acid
- Antidiabetic action of gliburidestart at molecular level by which mechanism  
(a) Phosphorylation of receptor (b) Binding to potassium ions  
(c) Decrease in potassium efflux (d) Increase in potassium efflux
- Oral rehydration salt contains ionic electrolytes in concentration mmol/L  
(a)  $\text{Na}^+$  20,  $\text{K}^+$  10 (b)  $\text{Na}^+$  40,  $\text{K}^+$  20 (c)  $\text{Na}^+$  53,  $\text{K}^+$  40 (d)  $\text{Na}^+$  60,  $\text{K}^+$  20
- Salol and thymol forms \_\_\_\_\_ system containing solid and liquid phase in the phase diagram  
(a) 1 component (b) 2 component (c) 3 component (d) Eutectic mixture



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12. Blood sugar is well controlled when Hemoglobin A1C is  
(a) Below 7% (b) Between 12%-15%  
(c) Less than 180 mg/dL (d) Between 90 and 130 mg/dL
13. Which of the following diabetes drugs acts by decreasing the amount of glucose produced by the liver  
(a) Sulfonylureas (b) Meglitinides (c) Biguanides (d) Alpha-glucosidase inhibitors
14. Ulcerative bowel disease affects which of the following organ  
(a) Duodenum (b) Colon (c) Rectum (d) Stomach
15. 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
16. Which of the following is not an indole alkaloid  
(a) Pilocarpine (b) Reserpine (c) Deserpidine (d) Strychnine
17. In mass spectrum, the base peak for alkyl benzene is obtained at m/z  
(a) 77 (b) 91 (c) 92 (d) 105
18. In acidic pH the oxygen load of hemoglobin is lower (d) This observation is termed as  
(a) Bohr effect (b) Dalton's law (c) Boyle's law (d) Haldane effect
19. Characteristics of drug-protein binding  
(P) Often parallels drug lipid solubility  
(Q) Drug-plasma albumin binding tends to be relatively nonselective  
(R) Acidic drugs bind to albumin while basic drug bind to glycoproteins  
(S) In rheumatoid arthritis patients, increased alpha1- acidic glycoprotein tends to promote increased lidocaine protein binding  
(a) P and Q (b) P, Q and R (c) P, Q, R and S (d) P and R
20. When HLB value of surfactant is 10 to 11, it acts best as  
(a) Solubilizer (b) O/W emulsifier (c) W/O emulsifier (d) Detergent
21. Which of the following is the reagent used to develop colour in performing limit test of lead  
(a) Thioglycolic acid (b) Dithiazone (c) Sodium tetraphenylborate (d) Arsine
22. What is/are use/s of phenol coefficient  
(a) To compare a disinfectant's killing efficacy to that of phenol  
(b) To determine the dilution at which the disinfectant is to be used  
(c) To determine the purity of disinfectant



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- (d) All of the above
23. In pinacol – pinacolone rearrangement, the final product is ketone. What is the starting compound for the rearrangement  
(a) 1, 1-diol (b) 1, 2-diol (c) 1, 3-diol (d) Geminal diol
24. C=O stretchings are very strong and easily observable bands in IR spectroscopy. However in the IR spectrum of glucose C=O absorption band is not seen. Why  
(a) In glucose, C=O group is not terminal (b) In glucose C=O group is absent  
(c) In glucose, hemiacetal group is present (d) In glucose, hemiketal group is present
25. The specific rotation of glucose is in which of the following range  
(a) 52-53° (b) 112-113° (c) 36-37° (d) 1
26. Nitrites are used in ailments as  
(a) Cerebral ischemia (b) Arrhythmia (c) Cardiac ischemia (d) Hypertension
27. Cyclic AMP (cAMP) is an important second messenger in signal transduction pathway(s) Which enzyme catalyzes the generation/accumulation of cAMP after a receptor – ligand interaction  
(a) Protein kinase A (b) cAMP phosphodiesterase  
(c) Guanylyl cyclase (d) Adenylate cyclase
28. False for type I hypersensitivity: Hypersensitivity type I is  
(a) Mediated by IgE (b) Immediate (c) Exemplified by tuberculin test (d) Atopic
29. Which of the following is a necessary cofactor in the formation of a blood clot  
(a) Vitamin K (b) Fibrinogen (c) Calcium (d) Prothrombin
30. To remove bacteria, viruses and pyrogens from water with efficiency of about 90-99% which method can be employed  
(a) Sterilization (b) Ultrafiltration (c) Reverse osmosis (d) Nanofiltration
31. Which is the active constituent in henna  
(a) Juglone (b) Menadione (c) Lawsone (d) Plumbagic
32. The test used to detect the irritancy of a chemical is  
(a) Draize eye test (b) ROAT test (c) Dimethylglyoxime (d) Corneometry
33. The haemolytic index shows presence of which chemical constituent in the crude drug  
(a) di- and sesquiterpene (b) Saponin (c) Steroid (d) Aliphatic monoterpene
34. Identify the IUPAC of dexamethasone  
(a) 2-Chloro-6 $\alpha$ , 9 $\alpha$ -difluoro-11 $\alpha$ , 17, 21-trihydroxy-16 $\alpha$ -methylpregna-1,4-dien-3, 20-dione  
(b) 9 $\alpha$ -Fluoro-11 $\beta$ , 17 $\alpha$ , 21-trihydroxy-16 $\alpha$ -methylpregna-1, 4-diene-3, 20-dione



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- (c)  $9\alpha$ -Fluoro- $11\beta$ ,  $17\alpha$ , 21-trihydroxy- $16\beta$ -methylpregna-1, 4-diene-3, 20-dione  
(d)  $6\alpha$ -Fluoro- $11\alpha$ , 21-dihydroxy- $16\alpha$ -methylpregna-1, 4-diene-3, 20-dione

35. Tamoxifen is nonsteroidal drug acting at steroid receptor(s) It produces which type of effects  
(P) Androgen (Q) Antiestrogen (R) Antiprogestogen (S) Estrogen  
(a) P and Q (b) Q and S (c) Q and R (d) R and S
36. What is the objective of trademark  
(a) To claim exclusive properties of products or services  
(b) To claim innovation of products or services  
(c) To deal with market place of expressive ideas  
(d) To protect consumers from being misled
37. Which of the following method is useful for measuring the number of viable cells in a culture  
(a) Plate count technique (b) Dry weight method  
(c) Petroff-Hauser counter (d) Light scattering in a spectrophotometer
38. Who were two of the pioneer in the area of total quality management  
(a) Fayol; Weber (b) Taylor; Gilbreth (c) Owen; Munsterberg (d) Deming; Juran
39. Consumer Protection act was enacted in which year  
(a) 1996 (b) 1991 (c) 1986 (d) 1984
40. Which of the following aminoglycoside is used in treatment of TB  
(a) Neomycin (b) Gemtamicin (c) Streptomycin (d) Kanamycin
41. To create successful new product, a company understands consumers, markets, and competitors and develop a/an  
(a) Impressive advertising campaign (b) Strong web site to push the product  
(c) Aggressive marketing strategy (d) Product that satisfies consumers' needs
42. The labeling 'Sipped and swallowed without addition of water' is meant for which kind of dosage forms  
(a) Linctuses (b) Mixtures (c) Elixirs (d) Liniments
43. The hydroxyl derivative of cymene is called as what  
(P) Thymol (Q) Carvacrol (R) Menthol (S) Cumene  
(a) P, Q, R and S (b) P, Q, and R (c) P and Q (d) Only P
44. Identify the inhalational anesthetic agent containing a bromine atom  
(a) Halothane (b) Isoflurane (c) Propofol (d) Fluroxene
45. Which of the following are the correct properties of ferrioin? Ferrioin is  
(P) 1, 10-phnathroline (Q) A bidentate ligand complex

(R) Red in reduced form

(S) Blue in oxidized form

(a) P and Q

(b) R and S

(c) P, R and S

(d) P, Q, R and S

46. If one part solute is soluble in 30-100 part of solvents, which descriptive term is appropriate to describe its solubility

(a) Freely soluble

(b) Soluble

(c) Sparingly soluble

(d) Slightly soluble

47. Which of the following classes of medication is the most common initial treatment of men with symptomatic benign prostatic hypertrophy (BPH)

(a) Alpha-1 agonist

(b) Alpha-1 blocker

(c) Beta-1 agonist

(d) Beta-1 blocker

48. All of the following NSAIDs are safe to be used in children EXCEPT

(a) Aspirin

(b) Acetaminophen

(c) Indomethacin

(d) Ibuprofen

49. Which of the following hormones acts on its target cell via a second messenger

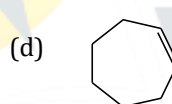
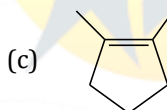
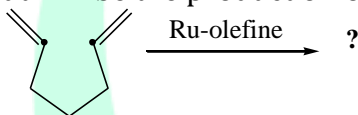
(a) Angiotensin II

(b) Thyroxine

(c) Estrogen

(d) Aldosterone

50. What will be the product of following reaction



Ans. (b)

51. Formation of active 1,25 (OH)<sub>2</sub> D<sub>3</sub> occurs in which organ

(a) Skin

(b) Kidney

(c) Liver

(d) Gut

52. Which of the following drugs should be used for emergency treatment of heroin overdoses

(a) Naltrexone

(b) Pentazocine

(c) Dextromethorphan

(d) Naloxone

53. An acceptable emulsion should be stable with no visible signs of separation at 45 °C or 50 °C for at least how many days

(a) 10-15 days

(b) 15-30 days

(c) 60-90 days

(d) 90-120 days

54. If X is an equivalent of silver deposited in silver coulometer and Y is an equivalent of copper deposited in copper coulometer when constant current is passed through the electrochemical cell for the same time which of the following is correct

(a) X = Y

(b) X = 2Y

(c) X = Y/2

(d) 2X = Y

55. The Major constituent of castor oil is

(a) Ricinoleic acid

(b) Ricinoliene

(c) Ricinelaic acid

(d) All of the above



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56. Which of the following reagents can be used for alkaloid detection  
(P) Mayer reagent (Q) Kedde reagent  
(R) Dr4agendoff reagent (S) Alcoholic solution of 2, 4 dinitrophenylhydrazine  
(a) Only P and Q are correct (b) Only P and R are correct  
(c) Only P and Rare correct (d) Only R and S are correct
57. Gibbs phase rule for general system  
(a)  $P + F = C - 1$  (b)  $F = P - C + 1$  (c)  $F = P - C + 2$  (d)  $F = C - P + 2$
58. With which of the following tests can the alkaloids of deadly nightshade be identified  
(a) Flurescence (b) Thalleioquine test (c) Grahe test (d) Vitali test
59. The process of exuding of fluid from the surface of gel is called  
(a) Syneresis (b) Hystresis (c) Dipedesis (d) Imbibition
60. Arrange the following esters as per decreasing order of rate of saponification  
(I) Ethyl benzoate (II) Ethyl p- methoxybenzoate  
(III) Ethyl p- chlorobenzoate (IV) Ethyl p-nitrobenzoate  
(a)  $I > II > III > IV$  (b)  $IV > III > II > I$  (c)  $IV > III > I > II$  (d)  $II > IV > I > III$
61. Which of the following statements about bentonite are CORRECT  
(P) Glycerin is used to pre-wet the bentonite prior to mixing with water to form its gel  
(Q) Aqueous bentonite suspensions retain their viscosity above pH 6 but are precipitated by acids  
(R) MgO increase gel formation while alcohol in significant amounts can precipitate bentonite gel  
(S) Betonite exhibits rheopexy  
(a) P and Q (b) Q and R (c) P,Q and R (d) P, Q, R and S
62. Seeding involves the spread of cancer cells to  
(a) Blood vessels (b) Serious membranes of body cavities  
(c) Fascia surrounding muscles and bones (d) Dermis and subcutamneum of the skin
63. Grape fruit juice is P- glycoprotein and CYP40 enzyme inhibitor . if drug X is degraded by proteolytic enzymes, administration of grapefruit juice with X  
(a) Increase bioavailability of X (b) Decrease Bioavailability of X  
(c) Does not affect bioavailability of X (d) Cause unexpected action of X
64. Tannins give positive test for all of the following EXCEPT  
(P) Goldebeater skin test (Q) Phenazone  
(R) Biuret test (S)  $FeCl_3$   
(a) P and Q (b) Q and R (c) P, Q and R (d) P,Q and S
65. Match the crude drug with its biological source





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- |                        |                            |
|------------------------|----------------------------|
| (1) Pale catechu       | (P) Conium maculatum       |
| (2) Clove              | (Q) Cymopsis tetragonoloba |
| (3) Gaur bean          | (R) Uncaria gambir         |
| (4) Hemlock            | (S) Syzygium aromaticum    |
| (a) 1-Q, 2-P, 3-S, 4-R | (b) 1-Q, 2-S, 3-R, 4-P     |
| (c) 1-R, 2-S, 3-Q, 4-P | (d) 1-R, 2-S, 3-P, 4-Q     |

66. Which of the following plot indicates the effects of antagonist on receptors  
(a) Michaelis-Menten plots (b) Line weaver burk Plots  
(c) Displacement plots (d) Schild plots
67. All of the following statements concerning zero-order degradation are true except  
(a) Its rate is independent of the concentration  
(b) A plot of  $\ln C$  vs time gives a straight line on reactilinear paper and a slope is a rate constant  
(c) Vs time gives a straight line on reactilinear paper and a slope is a rate constant  
Its half-life is a changing parameter  
(d) Its concentration remains unchanged with respect to time
68. The liquefaction time of cocoa butter of hydrogenated vegetable oil based suppositories is  
(a) 30-50 min (b) 30-40 min (c) 11-17 min (d) 3-7 min
69. Which of the following is most likely to undergo lysis  
(a) A cell losing water from its cytoplasm  
(b) A cell with intact, multilayer peptidoglycan cell wall  
(c) A cell with disturbed pentaglycine bridges in its cell wall  
(d) A cell a hydrophilic outermost layer in its cell wall
70. Match the drugs with the disease for which it is prescribed  
(1) Bedaquiline (P) Antidiabetic  
(2) Sitagliptin (Q) Antiarrhythmic  
(3) Mexilitine (R) Antidepressant  
(4) Paroxetine (S) Antitubercular  
(a) 1-S, 2-P, 3-Q, 4-R (b) 1-S, 2-P, 3-Q, 4-R  
(c) 1-Q, 2-P, 3-R, 4-S (d) 1-R, 2-S, 3-P, 4-Q
71. Energy radiated by the black body at 55 C is in the range of  
(a) UV (b) Visible (c) Infrared (d) Radio waves
72. A patient with severe anxiety and depression should avoid which of the following antidepressants  
(a) Mirtazapine (b) Bupropion (c) Fluoxetine (d) Fluvoxamine
73. Time required to reach the steady state after a dosage regimen depends on  
(a) Route of administration (b) Half life of a drug  
(c) Dosage interval (c) Dose of drug



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74. What is rayon  
(a) Cellulose (b) Regenerated cellulose  
(c) Dosage interval (d) Dose of drug
75. What is mechanism of action of carbamazepine  
(a) Inhibition of GABA transaminase (b) Blockade of sodium channel  
(c) Blockade of glutamate receptor (d) Blockade of GABA receptors
76. What is the product of reaction of aldehyde with  $K_2Cr_2O_7$   
(a) Alcohol (b) Acetal (c) Acid (d) Peroxyacids
77. Clopidogrel is a  
(a) P2Y<sub>12</sub> receptor antagonist (b) GP IIb/IIIa inhibitor  
(c) Vitamin K antagonist (d) None of the above
78. Which of the following titrations will always have an equivalence point at a pH > 7.00  
(a) Weak acid with a weak base (b) Strong acid with a weak base  
(c) Weak acid with a strong base (d) None of the above
79. The range of absolute bioavailability is  
(a) 0 to 1 (b) 0 to 100 (c) -1 to 1 (d) -1 to 100
80. In what concentration is benzalkonium chloride normally used for preparative preparation and treatment of minor wounds  
(a) 1:10 (b) 1:100 (c) 1:250 (d) 1:750
81. A Pharmaceutical company plans to market a generic version of a drug whose patent has expired. (d) Which type of documentation must be submitted to the FDA  
(a) IND (b) NDA (c) ANDA (d) SNDA & Letter of intent
82. Which of the following is not used as enteric coating material  
(a) Cellulose acetate phthalate (b) Pectin  
(c) Acrylate polymers (d) Polyvinyl acetate phthalate
83. For a particular drug, the rate of absorption but not the extent of the absorption of GIT, is affected by presence of food in GIT then taking the drug with food will result in  
(a) Smaller area under the plasma drug concentration time curve  
(b) Smaller maximal plasma drug concentration  
(c) Smaller time at which the maximal plasma drug concentration occurs  
(d) Smaller fractional bioavailability and total clearance
84. Barbiturates are being replaced by hypnotic benzodiazepines because of  
(a) Low therapeutic index (b) Suppression in REM sleep  
(c) High potential of physical dependence, abuse (d) All of the above





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85. Zona fasciculata of suprarenal gland produces

- (a) Mineralocorticoids
- (b) Glucocorticoids
- (c) Sex hormones
- (d) Adrenaline

86. Magnesium sulfate BPC is also called as

- (a) Epsom salt
- (b) Gypsum salt
- (c) Plaster of paris
- (d) Glauber's salt (decahydrate)

87. All of the following statements about plasmodium falciparum are correct EXCEPT

- (a) Trophozoites, Schizonts and gametocytes are not seen in peripheral blood smear.
- (b) Is associated with recurrent relapses after initial treatment because of liver hypnozoites
- (c) More than one parasite/multiple infection can be seen within single RBC
- (d) Causes more severe disease in pregnancy

88. The chairman of the investigational new Drug (IND) committee in India is

- (a) Drugs controller General of India, Government of India
- (b) Secretary, Department of Health Research, Government of India
- (c) Directorate General of Health Sciences, Government of India
- (d) Secretary, Department of Biotechnology, Government of India

89. Adverse drug Event reporting is the responsibility of all of the following EXCEPT

- (a) Pharmacist and physician
- (b) Manufacturer
- (c) Consumer
- (d) Regulatory authorities

90. The Given oligonucleotide is



- (a) 5' AGCTTATCT 3'
- (b) 3' AGCTTACTS 5'
- (c) 5' PO<sub>4</sub>-AGCTTATCT 3'-OH
- (d) 3'-OH-AGCTTATCT 5'-OH

91. Time dependent dilatant behavior is known as

- (a) Thixotropy
- (b) Rheopexy
- (c) Rheomalaxis
- (d) Plastic

92. Which of the following are characteristics for colloid mills

- (P) Due to centrifugal forces, the mill undergoes periodical vibratory movement
  - (Q) Particles smaller than 1 μm can be obtained with them
  - (R) The main types of colloid mills are hammer, turbine and dial mills
  - (S) The principle of their operation is based on the abrasion of particles at high speed
- (a) Only, P, Q and R are correct
  - (b) Only P and R are correct
  - (c) Only Q and S are correct
  - (d) P, Q, R and S are correct



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93. Slugs are prepared in which kind of granulation technique  
(a) Wet granulation (b) Dry Granulation  
(c) Steam Granulation (d) Melt Granulation
94. What does it mean that a cell is polyploid  
(a) That it contains more than 2 copies of one or a few of its chromosomes  
(b) That it contains more than 2 copies of a full set of homologous chromosomes  
(c) That it contains more than 2 copies of its sex chromosome  
(d) That it contains more than 2 copies of its autosomal chromosomes
95. Match the causative agent with the disease
- | Column I                   | Column II          |
|----------------------------|--------------------|
| (1) Bordetella pertussis   | (P) Mumps          |
| (2) Mycobacterium leprae   | (Q) Meningitis     |
| (3) Haemophilus influenzae | (R) Chancroid      |
| (4) Rubella                | (S) Whooping cough |
|                            | (T) Hansen disease |
- (a) 1-S, 2-T, 3-Q, 4-P  
(b) 1-T, 2-S, 3-R, 4-Q  
(c) 1-P, 2-S, 3-S, 4-T  
(d) 1-R, 2-P, 3-S, 4-T
96. The carbonyl stretching frequency for simple aldehydes, ketones, and carboxylic acids is about  $1710\text{ cm}^{-1}$ , whereas the carbonyl stretching frequency for esters is about .....  $\text{cm}^{-1}$   
(a) 1650 (b) 1700 (c) 1750 (d) 1850
97. Which of these dienes can undergo the Diels-Alder reaction  
(a) 1,3 - Pentadiene (b) 1,4-Pentadiene (c) 1,2-Butadiene (d) 1,4-Cyclohexadiene
98. How many  $^{13}\text{C}$  signals would 1,2-dimethylbenzene give  
(a) 8 (b) 7 (c) 4 (d) 3
99. Quinoline contains two basic rings. One of the rings in quinoline. It is attached to the second ring via one carbon bridge. Which in the second ring  
(a) 8-Azabicyclo [3.2.1] octane (b) 1-Azabicyclo [2.2.2] octane  
(c) 1,4-Diazabicyclo [2.2.2] octane (d) Rubane
100. Which of the first drugs are potentiated by the second  
(a) Phenytoin - Ethinyl oestradiol  
(b) Warfarin - Phenobarbitone  
(c) Lithium- Thiazide diuretics Potentiated due to reduced Lithium clearance  
(d) Bromocriptine- Metoprolol
101. Which of the following is a long acting  $\beta_2$  agonist that can be given by nebulization and as well a dry powder inhaler for the treatment of COPD



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- (a) Foramterol                      (b) Albuterol                      (c) Pulmicort                      (d) Fluticasone

102. What is the source of electron in electron microscope

- (a) Mercury lamp    (b) Tungsten wire    (c) Both    (d) None of the above

103. Which of the following is not recommended in patients with renal insufficiency or cardiac dysfunction

- (a) Aloe                      (b) Bisacodyl                      (c) Isapghol                      (d) Magnesium hydroxide

104. Which of the following is correct about parenteral nutrition

- (a) Parentral nutrition solutions are hypertonic solutions and IV fluids are isotonic  
(b) Parentral nutritionsolutions and IV preparations are isotonic solutions  
(c) Parentrtal nutrition solutions are hypertonic solutions and IV fluids are isotonic  
(d) Parentral nutrition solutions can be supplemented with medicatations

105. Which of the following in not include in immunization programme as per WHO recommendations for all children

- (a) BCG                      (b) Oral polio                      (c) Measels                      (d) Typhoid

106. Match the given condition with appropriate drug used for its treatment

- |  |                                       |
|--|---------------------------------------|
| (1) Pernicious anemia                            | (P) Erythropetin                      |
| (2) Meagaloblastic anemia                        | (Q) Oprelvekin                        |
| (3) Anemia associated with chronic renal failure | (R) Ratentral Vitamin B <sub>12</sub> |
| (4) Thrombocypeniadue to cancer chemotherapy     | (S) Folic acid                        |
| (a) 1-P, 2-Q, 3-R, 4-S                           | (b) 1-R, 2-S, 3-P, 4-Q                |
| (c) 1-R, 2-Q, 3-S, 4-P                           | (d) 1-R, 2-P, 3-S, 4-Q                |

107. Which one among the following is largest hip bone

- (a) Ischium                      (b) Illium                      (c) Femur                      (d) Calcaneus

108. Which enzymes is used by the HIV to form DNA in the host cell

- (a) Restriction endonuclease                      (b) DNA-directed polymerase only  
(c) Reverse transcriptate only                      (d) Both (b) and (c)

109. 'Sparging' is the process where

- (a) Silanol groups react with trimethylsilyl group  
(b) An inert gas is bubbled through the solvent reservoir to remove dissolved gases  
(c) Solvents are mixed together in a fixed ratio  
(d) Column is washed with solvents from nonpolar to polar and reverse

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110. Which of the following is not a plasticizer  
(a) Stearyl alcohol            (b) Tricacetin            (c) Pullulan            (d) Csator oil
111. Specific rotation of glucose is  
(a) 111-112°            (b) 52-53°            (c) 18-19°            (d) 11-12°
112. Gelatin suppositories are ..... time denser than cocoa butter suppositories  
(a) 0.8            (b) 1            (c) 1.2            (d) 2
113. Match the drugs with their BCS class  
(1) Furosemide            (P) Class I  
(2) Cimetidine            (Q) Class II  
(3) Ketoprofene            (R) Class III  
(4) Propranolol            (S) Class IV  
(a) 1-Q, 2-P, 3-S, 4-R            (b) 1-S, 2-P, 3-Q, 4-R  
(c) 1-R, 2-S, 3-Q, 4-P            (d) 1-S, 2-R, 3-Q, 4-P
114. Higuchi model is applicable to drug that is..... In the formulation  
(a) Dissolved in formulation            (b) Dispersed in formulation  
(c) Chemically bound to carrier in formulation            (d) Osmotically controlled in the formulation
115. Which structures represents diastereomers of I
- |  |  |  |  |  |
|--|--|--|--|--|
| $\begin{array}{c} \text{CH}_3 \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{OH} - \text{C} - \text{H} \\   \\ \text{OH} - \text{C} - \text{H} \\   \\ \text{CH}_3 \end{array}$ | $\begin{array}{c} \text{CH}_3 \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{OH} - \text{C} - \text{H} \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{CH}_3 \end{array}$ | $\begin{array}{c} \text{CH}_3 \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{CH}_3 \end{array}$ | $\begin{array}{c} \text{CH}_3 \\   \\ \text{OH} - \text{C} - \text{H} \\   \\ \text{OH} - \text{C} - \text{H} \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{CH}_3 \end{array}$ | $\begin{array}{c} \text{CH}_3 \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{H} - \text{C} - \text{OH} \\   \\ \text{HO} - \text{C} - \text{H} \\   \\ \text{CH}_3 \end{array}$ |
| I  | II   | III  | IV   | V  |
- (a) II and III            (b) II and IV            (c) III and V            (d) IV and V
116. Callus culture is  
(a) Solid            (b) Semisolid            (c) Liquid            (d) Suspension
117. About 95% of transdermal drugs enter the skin through the which pathway  
(a) Intercellular            (b) Transcellular            (c) Follicular            (d) Eccrine
118. Each of the following is a glycosaminoglycan dengue fever is  
(a) Chondroitin and dermatan            (b) Heparan and heparin  
(c) Hyaluronic acid and keratin            (d) Keratin and chitin

119. Characteristics feature if hemorrhagic dengue fever is

- (a) Reduction in platelet count                      (b) Reduction in RBC count  
(c) Reduction in coagulation factors              (d) Increased RBC

120. Polarographic method of analysis to obtain individual amounts of  $\text{Cu}^{2+}$  and  $\text{Cd}^{2+}$  in a given mixture of the two ions ( $\text{Cu}^{2+}$  and  $\text{Cd}^{2+}$ ) is achieved by measuring their

- (a) Half-wave potentials                                      (b) Migration currents  
(c) Decomposition potentials                              (d) Diffusion currents

121. Consider the reaction:  $\text{A} + \text{B} \rightleftharpoons \text{C}$

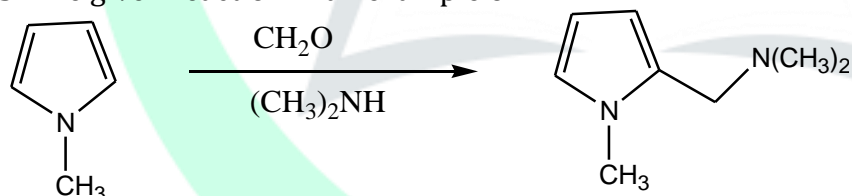
The unit of the thermodynamic equilibrium constant for the reaction is

- (a)  $\text{mol L}^{-1}$                       (b)  $\text{L mol}^{-1}$                       (c)  $\text{mol}^2 \text{L}^{-2}$                       (d) Dimensionless

122. Match compounds with the pathway they inhibit

- |                   |                         |
|-------------------|-------------------------|
| (1) Vancomycin    | (P) Folate metabolism   |
| (2) Rifampin      | (Q) DNA synthesis       |
| (3) Puromycin     | (R) Protein synthesis   |
| (4) Ciprofloxacin | (S) RNA synthesis       |
|                   | (T) Cell wall synthesis |
- (a) 1-T, 2-S, 3-R, 4-Q                      (b) 1-R, 2-S, 3-T, 4-P  
(c) 1-Q, 2-R, 3-T, 4-Q                      (d) 1-T, 2-Q, 3-P, 4-S

123. The given reaction is an example of



- (a) Arndt-Eistert homologation                      (b) Mannich reaction  
(c) Michael addition                                      (d) Chichibabin amination reaction

124. Match the following plant sources with their secondary metabolites and medical uses

- | Source Plant    | Secondary Metabolites | Medical use          |
|-----------------|-----------------------|----------------------|
| (1) Belladonna  | (P) Menthol           | (a) Cancer treatment |
| (2) Foxglove    | (Q) Atropine          | (b) Heart disease    |
| (3) Pacific yew | (R) Digitalin         | (c) Eye examination  |
| (4) Eucalyptus  | (S) Taxol             | (d) Cough            |
- (a) 1-Q-c, 2-R-b, 3-S-a, 4-P-d                      (b) 1-R-c, 2-Q-a, 3-P-d, 4-S-b  
(c) 1-Q-c, 2-S-b, 3-P-a, 4-R-d                      (d) 1-P-b, 2-S-c, 3-Q-d, 4-R-a

125. Which of the following causes arterial and bronchial constriction and platelet aggregation

- (a) Prostaglandin  $\text{E}_2$                                       (b) Prostaglandin  $\text{F}_{2\alpha}$   
(c) Prostaglandin  $\text{D}_2$                                       (d) Thromboxane  $\text{A}_2$



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## Answer 2015

1-c	2-c	3-b	4-d	5-b	6-c	7-d	8-b	9-c	10-d
11-b	12-a	13-c	14-b	15-b	16-a	17-b	18-a	19-c	20-b
21-b	22-a	23-b	24-c	25-a	26-c	27-d	28-c	29-c	30-c
31-c	32-a	33-b	34-b	35-b	36-c	37-a	38-d	39-c	40-c
41-c	42-a	43-c	44-a	45-d	46-c	47-b	48-a	49-a	50-b
51-b	52-d	53-c	54-a	55-b	56-b	57-d	58-d	59-a	60-c
61-c	62-b	63-b	64-d	65-c	66-d	67-d	68-d	69-d	70-a
71-c	72-b	73-b	74-b	75-b	76-c	77-a	78-c	79-b	80-d
81-c	82-b	83-b	84-d	85-b	86-b	87-b	88-a	89-d	90-a
91-d	92-c	93-b	94-b	95-a	96-c	97-a	98-c	99-b	100-c
101-a	102-b	103-d	104-a	105-d	106-b	107-b	108-c	109-b	110-a
111-b	112-c	113-d	114-b	115-a	116-b	117-d	118-d	119-a	120-d
121-d	122-a	123-b	124-a	125-d					

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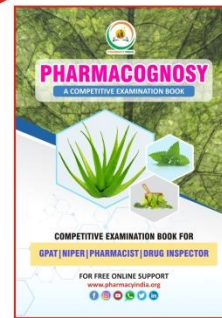
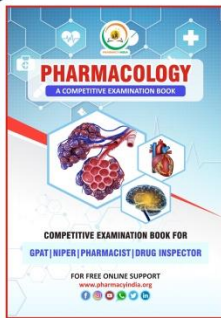
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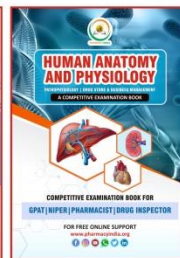
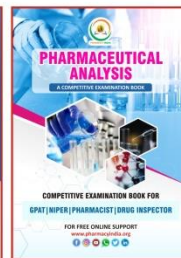
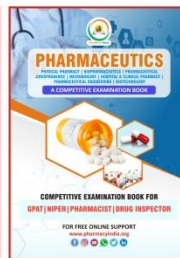
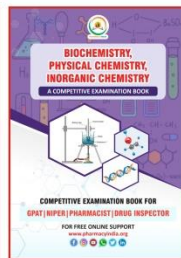
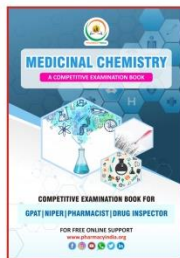
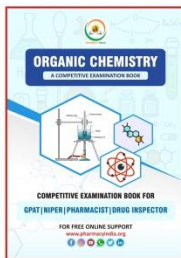
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