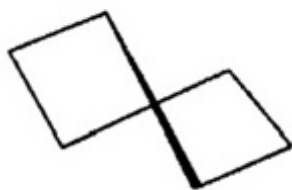


NIPER JEE 2011

1. Which of the following is a prodrug?

- A) Sulfasalazine
- B) Sulindac
- C) Aspirin
- D) Siloxane

2. Identify the structure



- A) Boat
- B) Chair
- C) Half chair
- D) Twist boat

3. Which of the following reacts via benzyne intermediate?

- A) $C_6H_5NO_2$
- B) $C_6H_3NO_2Cl_2$, ortho-Cl, ortho-Cl
- C) $C_6H_2NO_2Cl_3$ ortho-Cl, ortho-Cl, para-Cl.
- D) $C_6H_4NO_2Cl$, para-Cl.

4. National institute of homeopathy is situated at ———.

- A) Mumbai
- B) Kolkata
- C) Delhi
- D) Jaipur

5. Which is used as sweetening agent in chewable tablets?

- A) Anhydrous lactose
- B) Mannitol

- C) Sodium saccharin
- D) Menthol

6. Sania Mirza is associated with advertisement for which brand?

- A) Horlicks
- B) Complain
- C) Bournvita
- D) Malto

7. Chemically pyrethrin is _____.

- A) Sesquiterpenes
- B) Tetraterpenes
- C) Alkaloid
- D) Glycoside

8. What is known as Doctors without borders?

- A) A treaty for clinical trials
- B) NGO
- C) A novel based on war background
- D) Another name for Red Cross Society

9. Who is the chairman of BCCI?

- A) Chirayu Amin
- B) Shashank Manohar
- C) Shashi Tharoor
- D) Lalit Modi

10. In a class, height of 20 students is 120 cm; height of 10 students is 100 cm. What is the average height of total class students?

- A) 115 cm
- B) 110 cm
- C) 105 cm
- D) 120 cm

11. Drave test is used for _____.

- A) Wetting agents
- B) Detergent
- C) Emulsifying agent
- D) Surfactant

12. Who is the author of the book 'SONGS OF BLOOD AND SWORD'?

- A) Jhumpa Lahiri
- B) Taslima Nasrin
- C) Fatima Bhutto
- D) Kiran Desai

13. Substitute for *Saraca indica* is _____.

- A) *Polyalthia longifolia*
- B) *Saraca asoca*
- C) *Azdiracta indica*
- D) *Ficus religiosa*

14. ____ is used for limit test of arsenic:

- A) Nessler cylinder
- B) Kipps apparatus
- C) Gutzeit apparatus
- D) None

15. Family of bael is _____.

- A) Scropholariaceae
- B) Leguminaceae
- C) Rutaceae
- D) Compositae

16. Meaning of GRAPHICS is _____.

- A) Pictorial

- B) Unattractive
- C) Quaint
- D) With measurements

17. Nucleotides are attached to each other by which kind of bond?

- A) Sulphide
- B) Hydrogen
- C) Phosphodiester
- D) Band C both

18. Melatonin is secreted by which gland?

- A) Pituitary
- B) Hypothalamus
- C) Pineal
- D) Thyroid

19. Ionised drugs are concentrated in _____.

- A) Brain
- B) Liver
- C) Urine
- D) Blood

20. The base peak in mass spectrum is given by the _____.

- A) Molecular ion
- B) Most stable ion
- C) Metastable ion
- D) Daughter ion

21. Picrorhiza plant contains _____.

- A) Lignan
- B) Flavonoids
- C) Carotenoids
- D) Tannins

22. Kaya skin care clinic is a franchise of _____.

- A) Reliance
- B) ITC
- C) Zydus
- D) Shahnaz Hussain Herbs

23. ____ bought 26% shares of Reliance:

- A) Deccan Airways
- B) Nippon Life
- C) Hindustan Unilever
- D) Reliance

24. What is the use of *Rauwolfia*?

- A) Sweetener
- B) Carminative
- C) Purgative
- D) Anthelminthic

25. What is the use of sodium saccharine in enteral products?

- A) Solubilising agent
- B) Tonicity adjustifier
- C) Stabilizer
- D) Sweetener

26. pH of blood is _____.

- A) 5.6
- B) 6.8
- C) 7.4
- D) 8.2

27. Which form of the drug is absorbed rapidly through cell membrane?

- A) Unionised

- B) Ionised
- C) Both
- D) Positive

28. Succinylcholine can bind with nicotinic receptors more than acetylcholine because it ————
.

- A) Slowly metabolised by acetyl cholinesterase
- B) Rapidly metabolised by acetyl cholinesterase
- C) Not metabolised by acetyl cholinesterase
- D) None

29. Correct sequence for PCR process is ————.

- A) Denaturation, Annealing, Extension
- B) Annealing, Extension, Denaturation
- C) Annealing, Denaturation, Extension
- D) Extension, Denaturation, Annealing

30. Cyanide at 545 nm gives ____ colour:

- A) Red
- B) Yellow
- C) Green
- D) Violet

31. Thymoleptics mean ————.

- A) Act on thymus gland
- B) Increase temp.
- C) Antidepressants
- D) Antipsychotic

32. PCI is constituted by ————.

- A) State government
- B) Central government
- C) Legislative committee

D) None

33. Standards for Disinfectant fluid come under which Schedule?

A) O

B) F

C) B

D) M

E) W

34. Shape of vasaka leaf is _____.

A) Ovate

B) Lanceolate

C) Dentate

D) Ovate-lanceolate

35. Which of the following is longest acting antihistamine?

A) Terfenadin

B) Cetirizine

C) Diphenhydramin

D) Astimazole

36. Which of following barbiturate is ultrashort acting?

A) Thiopental Sodium

B) Phenobarbitol

C) Secobarbitol

D) Barbituric acid

37. Stereochemistry of S_N2 reaction is _____.

A) Retention

B) Inversion

C) Racemisation

D) None

38. Which of the following have highest dipole moment?

- A) CH_3Cl
- B) CH_2Cl_2
- C) CHCl_3
- D) CCl_4

39. Which of the following cause prolongation of QT interval?

- A) Sodium nitroprusside
- B) Terfenadine
- C) Telmisartan
- D) Digoxin

40. Human body temperature is regulated by —————.

- A) Hypothalamus
- B) Oblongata medulla
- C) Cerebrum
- D) Cerebellum

41. Meningitis is inflammation of:

- A) Brain
- B) Bone
- C) Liver
- D) Kidney

42. Which of following is best method to convert crystal form to amorphous form?

- A) Micronization
- B) Freeze drying
- C) Rolling
- D) Any of above

43. The largest revenue in India is obtained from?

- A) Sales Tax
- B) Direct Taxes

- C) Excise Duties
- D) None of these

44. Synonym of AUDACIOUS ———.

- A) Dumb
- B) Daring
- C) Attractive
- D) Dangerous

45. Synonym of MAGNANIMOUS ———.

- A) Attractive
- B) Generous
- C) Kind
- D) Love

46. Synonym of REBATE ———.

- A) Debenture
- B) Discount
- C) Dividend
- D) Bonus

47. IUPAC of propranolol is ———.

- A) RS-1-(1-methylethylamino)-3-(1-naphthyloxy)-propan-2-ol
- B) RS-1-(2-methylethylamino)-3-(1-naphthyloxy)-propan-2-ol
- C) RS-2-(1-methylethylamino)-3-(1-naphthyloxy)-propan-2-ol
- D) RS-2-(2-methylethylamino)-3-(1-naphthyloxy)-propan-2-ol

48. Morphine was discovered in ———.

- A) 1805
- B) 1892
- C) 1902
- D) 1992

49. Stereochemistry of Gossypol is due to ———.

- A) Chiral carbon
- B) Chiral nitrogen
- C) Restricted rotation
- D) None

50. $\text{FeCl}_3 + \text{Catechol}$ gives ____ color:

- A) Purple
- B) Red
- C) Green
- D) Violet

51. Cyclohexanone on reduction gives:

- A) Cyclohexanol
- B) Cyclohexene
- C) Cyclohexadiol
- D) None

52. On melting double stranded DNA gives more number of?

- A) C and G
- B) C and A
- C) C and T
- D) A and T

53. Drug in blood is in slowest equilibrium with drug in ———.

- A) Brain
- B) Muscle
- C) Liver
- D) Fat

54. DLVO theory is associated with ———.

- A) Granulation
- B) Suspension

- C) Emulsion
- D) Compression

55. Amount of blood pumped out from heart in 1 min is called as _____.

- A) Cardiac output
- B) Stock volume
- C) FEV
- D) Minute volume

56. Correct sequence for bond energies is _____.

- A) $\text{H-H} > \text{C-H} > \text{C-C} > \text{C-Cl}$
- B) $\text{H-H} > \text{C-Cl} > \text{C-C} > \text{C-H}$
- C) $\text{C-C} > \text{H-H} > \text{C-Cl} > \text{C-H}$
- D) $\text{C-Cl} > \text{H-H} > \text{C-C} > \text{C-H}$

57. In exothermic reaction, the products have _____.

- A) Less free energy than reactant
- B) More free energy than reactant
- C) Same energy as reactant
- D) None

58. Glycolysis occurs in _____.

- A) Mitochondria
- B) Cytosol
- C) Golgi apparatus
- D) Ribosome

59. Platelets are derived from?

- A) Pus cell
- B) Lymphoblast
- C) Mayoblast
- D) Megakaryocytic

60. Which of the following tests is used for detection of caffeine?
- A) Van urk test
 - B) Thelloquin test
 - C) Murexide test
 - D) Wagner's test
61. Which of the following reactions occurs faster in H_2O than D_2O ? <https://www.pyqonline.com>
- A) $\text{S}_{\text{N}}2$
 - B) $\text{S}_{\text{N}}1$
 - C) Elimination
 - D) Hydrolysis
62. Meso compounds are optically inactive due to?
- A) Internal compensation
 - B) External compensation
 - C) Restricted rotation
 - D) None
63. Erythrose and threose are _____.
- A) Diastereomers
 - B) Enantiomers
 - C) Both A and B
 - D) Anomers
64. Which of the following is not associated with hepatotoxicity?
- A) Rifampicin
 - B) Pyrazinamide
 - C) Ethambutol
 - D) Streptomycin
65. The range of IR absorption for N-H bound is ____ cm^{-1} :
- A) 1700
 - B) 3400

- C) 780
- D) 1100

66. Term pharmacognosy was coined by _____.

- A) Hyppocratus
- B) Syndler
- C) Gallon
- D) Pasture

67. Competitive inhibition is overcome by _____.

- A) Increase in substrate conc.
- B) Decrease in substrate conc.
- C) Increase in temp.
- D) Decrease in temp.

68. Chemically Kaolin is _____.

- A) Hydrated magnesium silicate
- B) Hydrated aluminium silicate
- C) Calcium carbonate
- D) None

69. H. Pylori causes: _____.

- A) Diarrhoea
- B) Hyperacidity
- C) Dysentery
- D) Crohn's disease

70. When UV light falls on a molecule it causes _____.

- A) Nuclear spinning
- B) Electronic transitions
- C) Vibration transitions
- D) Mass change

71. Which of the following is a third-generation hypoglycaemic agent?

- A) Glimepiride
- B) Repaglinide
- C) Phenformin
- D) Metformin

72. Which of the following elements is present in betaine structure?

- A) Sodium
- B) Phosphorous
- C) Lithium
- D) Chlorine

73. Clonidine is _____.

- A) Antilipidaemic
- B) Antipsychotic
- C) Antiseizure
- D) Antihypertensive

74. Mannitol is an excellent choice for chewable tablets because it has _____.

- A) Positive heat of solution
- B) Negative heat of solution
- C) Zero heat of solution
- D) None

75. AU, BV, CW, ____?

- A) KL
- B) MN
- C) DX
- D) CD

76. Chemically Mayer's reagent is _____.

- A) Potassium mercuric iodide
- B) Potassium bismuth iodide

- C) I and KI
- D) Picric acid

77. Strength of H_2O_2 as per IP is _____.

- A) 20% w/v
- B) 80% w/v
- C) 20 volume
- D) 80 volume

78. Vulcanizing agent for rubber is: _____.

- A) Sulphur
- B) Sulphur dioxide
- C) Zinc
- D) CaCO_3

79. Which of the following plastic polymers has higher permeability?

- A) Polyethylene
- B) Polypropylene
- C) Nylon
- D) Polystyrene
- E) PVC

80. Chemically Carbopols are _____.

- A) Carboxy vinyl polymer
- B) Acryl polymer
- C) PEG
- D) PVP

81. Which of the following equations is used to calculate pH of a buffer system?

- A) Handerson-Hasselbalch
- B) Kozely Karman
- C) BET
- D) Arrhenius

82. What is the configuration of D-glyceraldehyde?

- A) S
- B) R
- C) E
- D) Z

83. Which of the following is most basic?

- A) Pyrrole
- B) Pyridine
- C) Aniline
- D) N, N-dimethylaniline

84. What is the unit of molar extinction co-efficient?

- A) $M^{-1} \cdot cm^{-1}$
- B) $M^{-1} \cdot cm^2$
- C) $M^2 \cdot cm^2$
- D) $M^2 \cdot cm^{-1}$

85. Which method is used for quantitative analysis?

- A) IR
- B) NMR
- C) UV
- D) MASS

86. Barbaloin is a chemical constituent of _____.

- A) Senna
- B) Aloe
- C) Rheum
- D) Cascara

87. A man completes his journey in total 8 hrs. In his journey, he travels at 40 Km/hr for half the distance and the rest at a speed of 60 Km/hr. What is the total distance traveled by him?

- A) 340 km
- B) 380 km
- C) 400 km
- D) 420 km

88. Mitochondria are involved in _____.

- A) Fat production
- B) Glucose production
- C) Electron transport
- D) Protein production

89. CAP is hydrolysed at ____ pH:

- A) 2.1
- B) 3.3
- C) 5.4
- D) 6.0
- E) Non-specific independent

90. More specifically antigen is called as:

- A) Immunogen
- B) Heptane
- C) Immunoglobulin
- D) All

91. Which of the following is not a disaccharide?

- A) Sucrose
- B) Maltose
- C) Glucopyranose
- D) Lactose

92. Both Vitamin K and C are involved in _____.

- A) The synthesis of clotting factors
- B) Post-translational modifications

- C) Antioxidant mechanisms
- D) The microsomal hydroxylation reactions

93. Which of the following instruments is not used for wet granulation?

- A) Planetary mixer
- B) Roller compactor
- C) Chilsonator
- D) B and C both

94. Which of the following is cycloaddition?

- A) Baeyer-villiger
- B) Claisen condensation
- C) Diels-Alder
- D) FC alkylation

95. Dry powder for injection is manufactured by ____ method:

- A) Dry heat
- B) Moist heat
- C) Aseptic filling
- D) Radiation

96. Which of the following is condensed tannin?

- A) Proanthocyanidins
- B) Chlorogenic acid
- C) Catechin
- D) A and B both

97. What does the ADH hormone regulate?

- A) Blood glucose
- B) Serum calcium
- C) Urine concentration
- D) All

98. Drug used for preterm delivery is ———.

- A) Oxytocin
- B) Sulfoprostion
- C) Atosiban
- D) Carbetocin

99. The drug which acts as a blocker of alpha and beta receptors is ———.

- A) Labetalol
- B) Atenolol
- C) Propranolol
- D) Salmeterol

100. Reduction in pharmacological activity of salbutamol on prolonged usage is due to ———.

- A) Receptor up-regulation
- B) Receptor down-regulation
- C) Receptor sensitisation
- D) Desensitisation

101. Vitamin A and salicylic acid formulation contains ———.

- A) Tween
- B) Tween + Sucrose
- C) Tween + Lanolin + Ether
- D) None of the above

102. Which part of Plantago is used for therapeutic purposes?

- A) Seed
- B) Root
- C) Bark
- D) Fruit

103. Increase in lipase levels is the indication of ———.

- A) Stomatics
- B) Colonic cancer

- C) Pancreatitis
- D) Hepatitis

104. DNA polymerase II contains _____.

- A) 3'-5' polymerase and 5'-3' exonuclease
- B) 5'-3' polymerase and 3'-5' exonuclease
- C) 3'-5' polymerase and 5'-3' endonuclease
- D) 5'-3' polymerase and 3'-5' endonuclease

105. Antidote for heparin is _____.

- A) Warfarin
- B) Protamine sulphate
- C) Aspirin
- D) Ticlopidin

106. What is the primary requirement for IR active compound?

- A) Change in conductance
- B) Change in dipole moment
- C) Change in spin
- D) B and C both

107. What is the nature of stationary and mobile phase in RPC?

- A) Polar, Polar
- B) Polar, Non-polar
- C) Non-polar, Polar
- D) Non-polar, Nonpolar

108. δ value of acetylene group in NMR spectrum compared to alkene is _____.

- A) Equal
- B) Higher
- C) Lower
- D) Dependent upon configuration

109. Which part of *Polygala senega* is used?

- A) Seed
- B) Root
- C) Rhizome
- D) Wood

110. EFH: WYZ So — : —

- A) PRS: UWX
- B) HIJ: PQR
- C) BCE: PQS
- D) HGK: JUD

111. USP type 2 apparatus is —.

- A) Paddle
- B) Basket
- C) Rotating cylinder
- D) Flow through cell

112. Which of the following occur naturally as protein?

- A) Protamine
- B) Spermine
- C) Warfarin
- D) Heparanoid

113. *Aegle marmelos* belongs to —.

- A) Rutaceae
- B) Malvaceae
- C) Umbellifarie
- D) Apocynaceae

114. Which polymer is used in Controlled Drug Delivery System?

- A) HPMC
- B) CAP

- C) DCP
- D) None

115. Morphine is used as ———.

- A) Analgesic
- B) Anticonvulsant
- C) Both
- D) None

116. Which of the following is obtained from a marine source? <https://www.pyqonline.com>

- A) Pralidoxime
- B) Heparin
- C) Both
- D) None

117. S is seventh from the top and 28th from the bottom in a class. How many students are there in the class?

- A) 36
- B) 35
- C) 34
- D) Cannot be determined

118. ——— used as catalyst in Witting reaction:

- A) Phosphorus
- B) NH_3
- C) AlCl_3
- D) Cobalt

119. Cardiac action is present in ———.

- A) Bufanone
- B) Bufanedione
- C) Bufadienoides
- D) BandC

120. Ehrlich reagent is _____.

- A) Picric acid
- B) p-dimethyl benzaldehyde
- C) p-anisaldehyde
- D) Coxom

121. IR range of i-methyl benzoate, ii-phenyl acetate, iii-acetophenone is _____.

- A) I = ii > iii
- B) I > ii > iii
- C) I i > iii > I
- D) ii > I > iii

122. Maximum volume for Intracutaneous injection is ____ ml:

- A) 0.01
- B) 0.1
- C) 0.2
- D) 0.5

123. The dose of the drug is 100 mg, Plasma concentration is 2 g/ml. What will be Vd?

- A) 5 L
- B) 0.5 L
- C) 10 L
- D) 1 L

124. Endothelial cells are located at _____.

- A) Blood vessel
- B) Lung
- C) Lymph node
- D) Liver

125. The market price of a share of common stock is determined by _____.

- A) The board of directors of the firm

- B) The stock exchange on which the stock is listed
- C) The president of the company
- D) Individuals buying and selling the stock

126. Which of the following parameters is not used for identification of emulsion?

- A) Electric charge
- B) Light scattering
- C) Rheological
- D) Solubility

127. ____ is the globule size of microemulsion:

- A) 1 nm 10 μ m
- B) 0.1 mm 1 mm
- C) 1 mm 10 mm
- D) 10 nm 100 nm

128. Among the bands of β -galactosidase, serum albumin, egg albumin, myosin by SDS PAGE, the highest electrophoretic mobility is observed for:

- A) β -galactosidase
- B) Serum albumin
- C) Egg albumin
- D) Myosin

129. Which of the following is not optically inactive?

- A) Allene
- B) Biphenyl
- C) Meso tartaric acid
- D) None

130. Chemical constituent of Eucalyptus oil is _____.

- A) Geraniol
- B) 1,8-cineole
- C) Menthol

D) None of the above

131. AU: BV: CW: ____?

A) DX

B) XD

C) DY

D) YD

132. Ratiopharm, a German company, was overtaken by _____.

A) Teva Pharma

B) Sanofi

C) Pfizer

D) GSK

133. Which of the following is the drug of choice for the treatment of diarrhea?

A) Erythromycin

B) Domperidone

C) Cisapride

D) BandC both

134. Acidic oxidation of cumene gives _____.

A) Phenol

B) Benzene

C) Benzoic acid

D) Limonene

135. Succinic acid is _____.

A) Monocarboxylic acid

B) Dicarboxylic acid

C) Unsaturated carboxylic acid

D) None

136. Which of the following is NOT a side effect of phenothiazine?

- A) Nephrotoxicity
- B) Gynaecomastia
- C) Parkinson disease
- D) Colostatic joints

137. Which of the following acts by inhibiting the 50S ribosome subunit?

- A) Macrolide
- B) Tetracycline
- C) Aminoglycoside
- D) None of the above

138. Reliance is associated with which airline?

- A) Kingfisher
- B) Jet Airways
- C) Air India
- D) Deccan Airways

139. Bond angle in sp hybridization is _____.

- A) 180°
- B) 90°
- C) 109°
- D) 120°

140. How many isoprene units are present in sesquiterpene?

- A) 2
- B) 3
- C) 4
- D) 5

141. Anandamide is _____.

- A) Natural ligand for cannabinoid receptor
- B) Natural ligand for peptide receptor
- C) Natural ligand for opioid receptor

D) None of the above

142. One of the following cannot be sterilized by moist heat _____.

- A) Teflon
- B) Polystyrene
- C) Polyethylene
- D) Polypropylene

143. Which of the following is NOT a loop diuretic?

- A) Furosemide
- B) Bumetanide
- C) Triamterine
- D) Indapamide

144. In a certain code language, the word "ROUTINE" is written as "VMRGFLI." How will the word "CRUELTY" be written in that code language?

- A) VOCVZRL
- B) WPCVZRL
- C) VPCVZRL
- D) VPVCZRL

145. Leucopenia occurs due to _____.

- A) Decrease in size of WBC
- B) Increase in size of WBC
- C) Decrease in size of platelet
- D) Increase in size of platelet

146. Cilastatin is an inhibitor of _____.

- A) DNA polymerase
- B) Dehydropeptidase
- C) Dipeptidyl peptidase
- D) DNA gyrase

147. Energy of product in exothermic reaction is ____ than reactant.

- A) Less
- B) More
- C) Equal
- D) Can't say

148. Stationary phase in cellulose chromatography is ____.

- A) Silica gel
- B) Water without OH
- C) Water with OH
- D) All of the above

149. Which of the following is true about PEGlyted liposome?

- A) Easily metabolized by RES
- B) Higher residence time in body
- C) Concentrate in brain
- D) Highly lipophilic

150. Which of the following is wrong?

- A) Aquacoat CPD is enteric coating.
- B) Aquacoat ECD is water soluble coating.
- C) Aquacoat ECD is aqueous dispersion of ethylcellulose.
- D) Aquacoat CPD is aqueous dispersion of cellulose acetate phthalate.

151. Which of the following occur in mitochondria?

- A) Steroid synthesis
- B) Fat synthesis
- C) Carbohydrate synthesis
- D) Protein synthesis

152. Which of the following acts by inhibiting aminotransferase and 30S ribosome?

- A) Tetracycline
- B) Erythromycin

- C) Rifampin
- D) Chloramphenicol

153. Which of the following class belongs to the composite family?

- A) Terpene
- B) Alkaloids
- C) Glycoside
- D) Tannins

154. Increase in polarity of solvent causes ____ shift in $n \rightarrow \pi^*$ transition.

- A) Bathochromic
- B) Hypsochromic
- C) Hypochromic
- D) Hyperchromic

155. Which of the following is an action of diuretic?

- A) Glucose formation
- B) Urine formation
- C) Sweat formation
- D) Saliva formation

156. IBM stands for:

- A) International Business Machines
- B) International Big Machines
- C) Interrelated Business Machines
- D) Interrelated Big Machines

157. Bile is stored in _____.

- A) Pancreas
- B) Gall bladder
- C) Spleen
- D) Liver

158. Which part of the brain controls balance and posture of the body?

- A) Cerebrum
- B) Cerebellum
- C) Hypothalamus
- D) Medulla oblongata

159. What is the unit of Molar extinction coefficient?

- A) $\text{L mol}^{-1} \text{cm}^{-1}$
- B) $\text{L mol}^{-1} \text{cm}^2$
- C) $\text{L mol}^2 \text{cm}^{-1}$
- D) $\text{L mol}^{-1} \text{cm}$

160. Which of the following is the drug of choice in acute amoebic dysentery?

- A) Metronidazole
- B) Chloroquine
- C) Hydroimitin
- D) Iodoquinolin

161. MOA of fluorouracil is _____.

- A) Inhibition of spindle formation
- B) Inhibition of thymidylate synthesis
- C) Alkylating DNA
- D) Inhibiting ATP formation

162. Folate deficiency is caused by _____.

- A) Methotrexate
- B) Cyclofosfamide
- C) Busulfan
- D) Etoposide

163. Which of the following is used to overcome GI irritation caused by NSAIDs?

- A) Mesoprostol
- B) PEG

- C) Senna
- D) Bismuth carbonate

164. Isoelectric point of insulin is 5. How can one make its long-acting formulation?

- A) Decrease pH formulation above isoelectric point
- B) Increase pH of formulation above isoelectric point
- C) Both of the above
- D) None of the above

165. ____ is longer-acting penicillin.

- A) Procaine penicillin
- B) Benzathin penicillin
- C) Penicillin V
- D) Ampicillin

166. Which of the following is used as a sorbent in tablet bottles?

- A) MCC
- B) Silica
- C) Both A and B
- D) None

167. ____ is the most stable free radical.

- A) Ar_3C^+
- B) R_3C^+
- C) R_2HC^+
- D) RH_2C^+

168. Structure of free radical is _____.

- A) Rectangular
- B) Planar
- C) Pyramidal
- D) Octagonal

169. Tartaric acid is optically inactive because of ———.

- A) Internal plane of symmetry
- B) Internal center of symmetry
- C) Helical axis
- D) None of the above

170. Which of the following is induced in an allergic reaction?

- A) IgG
- B) IgM
- C) IgE
- D) IgA

171. What is the composition of agaropectin?

- A) Galactose and uronic acid
- B) Glucose and uronic acid
- C) D-galactose and 3,6-anhydro-1-galactose linked β 1,3 glycosidically
- D) D-galactose and 3,6-anhydro-1-galactose linked β 1,4 glycosidically

172. Arrhenius equation is related to ———.

- A) Surface tension
- B) Accelerated stability study
- C) Viscosity measurement
- D) None of the above

173. MOA of GABA is ———.

- A) Decrease chloride level
- B) Increase chloride level
- C) Increase frequency of chloride channel
- D) Decrease frequency of chloride channel

174. Which of the following is true about gram-positive staining?

- A) All bacteria are classified as Gram-positive or Gram-negative
- B) Crystal violet does not penetrate Gram-negative bacteria

- C) Alcohol/acetone is used to wash the lipid
- D) Iodine is not much important in the Gram staining technique

175. Eucell method is used for extraction of _____.

- A) Glycoside
- B) Volatile oil
- C) Fixed oil
- D) Alkaloid

176. Full form of IND is _____.

- A) Investigational New Drug application
- B) Intrauterine Non-Gram Diseases
- C) Identification Number Digit
- D) Unique Identification Number

177. Which of the following is not a product of Dabur?

- A) Meswak
- B) Glucon D
- C) Odomus
- D) Nirvan oil

178. Colors are added in which step of tablet coating?

- A) Sub coating
- B) Seal coating
- C) Syrup coating
- D) Finishing

179. Which of the following is used for measuring surface tension?

- A) Capillary rise method
- B) Duonoy ring method
- C) Falling sphere method
- D) All of the above

180. National Institute of Homeopathy is located at _____.

- A) Kolkata
- B) Jaipur
- C) Bombay
- D) Chennai

181. Magnesium stearate is added in which step of tablet formulation?

- A) Before granulation
- B) During granulation
- C) After granulation
- D) None

182. ____ is the principle of gas chromatography. <https://www.pyqonline.com>

- A) Adsorption
- B) Partition
- C) A and B both
- D) None

183. IV emulsions are made isotonic with _____.

- A) 0.9 N NaCl
- B) 0.9 M KCl
- C) 2% w/w boric acid
- D) All of the above

184. An example of subsidy is _____.

- A) The Doha Round
- B) The Common Agriculture Policy
- C) The GATT
- D) None of the above

185. Oxy and deoxy ribose are different by _____.

- A) OH at 2nd carbon
- B) OH at 3rd carbon

- C) OH at 4th carbon
- D) H at 5th carbon

186. Enteric coated tablet dissolves in how much time in 0.1 N HCl?

- A) 180 minutes
- B) 120 minutes
- C) 45 minutes
- D) 60 minutes

187. Which of the following combinations is used in effervescent tablet preparation?

- A) Citric acid + NaHCO₃
- B) Phthalic acid + NaHCO₃
- C) CO₂ + NaHCO₃
- D) A and C both

189. Contact angle for complete wetting is _____.

- A) 180
- B) 90
- C) 0
- D) 60

190. Rheum rhizome is used as _____.

- A) Laxative
- B) Carminative
- C) Anti-diarrhea
- D) Purgative

191. Which of the following is not a mechanism of enzyme regulation?

- A) Feedback inhibition by product
- B) Addition or removal of phosphate groups to amino acids with sulfur groups
- C) Stimulation by a substrate or product
- D) Proteolytic cleavage

192. Daughter cells are separated in which phase of the cell cycle?

- A) Prophase
- B) Interphase
- C) Telophase
- D) Metaphase

193. ——— is used as a preservative in ophthalmic formulation.

- A) Benzalkonium chloride
- B) Phenol
- C) Chlorcresol
- D) Tartaric acid

194. Podophylotoxin is ———.

- A) Diterpin derivative
- B) Flavon derivative
- C) Lignan derivative
- D) Flavanol derivative

195. Carboxylic acids and esters can be reduced to corresponding alcohols by the use of ———.

- A) LiAlH_4
- B) NaBH_4
- C) Zn/Hg/HCl
- D) Sn/HCl

196. World Trade Organization was established in

- A) 1992
- B) 1993
- C) 1994
- D) 1995

197. Psoralen is synthesized from ———.

- A) Coumarin
- B) Terpin

- C) Warfarin
- D) Diosgenin

198. Administration of drug with microsyringe is _____.

- A) Vein
- B) Blood vessel
- C) Painless
- D) Painful

199. Crystal habit is _____.

- A) Shape in which its individual or aggregates of crystals grow
- B) Orientation of cleavage surfaces in an ionically bonded crystal
- C) Size of the crystal
- D) Density of the crystal

200. Immunosuppressant is _____.

- A) Rapamycin
- B) Antinomycin D
- C) Rifampicin
- D) Rotigotin

ANSWER KEY FOR NIPER JEE 2011

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