

## Past Paper for NIPER 2009

NIPER Paper 2011

NIPER Paper 2010

NIPER Paper 2009

NIPER Paper 2007

NIPER Paper 2006

NIPER Paper 2005

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1. Heparin is a? Protein, polysacchride (ans)
2. cochicine acts by?
3. molarity of water? 55.5, 18, 1, none
4. protein sequences detected by ramchandran plot
5. Avicel is a grade of? PEG, microcrystalline cellulose (ans),
6. US FDA approved drug 2009 for gout? gomilumab
7. US FDA approved drug 2009 for psychosis? iliperidone
8. cocoa butter is? insol in water
9. size of suppository used for adults? 4
10. smallest capsule size among 0, 1, 2, 4
11. RBI established in which year
12. UTI (United Trust of India) functions.
13. Antonym of onerous
14. Synonym of infrequent
15. water soluble lubricant? Lactose, sod chloride, PEG, sorbitol
16. IR ranges of Acid chloride
17. 2200.2100 range of?
18. identify which rearrangemt? Cope, favorskii, claisen.
19. baeyer villaegr oxidation catalyst? Ans. Perowy acids
20. role of reverse transcriptase?
21. nomenclature of taxol side chain
22. mycolic acid is chemically?
23. different ring forms of carbohydrates called as. Anomers
24. QSAR 3D analysis. CoMFA

25. if a molecule is exposed to uv radiation. What will happen? electronic distribution. Change in spin, orientation. All.
26. Family of haemophilus. Pasteurellaceae
27. SN<sub>2</sub> reaction. There is. Retention of orientation, inversion (ans)
28. role of roprinole
29. side effects of antipsychotic drugs expect?
30. properties of bases of supp are true... Except? Base should melt below 30 degrees
31. which one is photosensitive? Ciprofloxacin
32. structure of nifedipine
33. which one is nonionic polymer. Sorbitan ester
34. nonirritating purgative. Ans \_\_\_\_\_ sodium carboxy methyl cellulose
35. if a drug is highly protein bound then?
36. stereochemistry of gossypol
37. stereochemistry of ephedrine
38. what is the structure of betain?
39. what is the use of auditing in banks?
40. how much hydrogen bond could be formed by one molecule of water. Ans 4.
41. nobel prize in medicine in year 2008?
42. US FDA approved drug for rheumatoid arthritis. Ans. Golimumab
43. MOA of trimetazine ans. Inhibition of carnitine transferase
44. which one of the following liquid can not be given by IV route. Methanol. Ethanol...
45. what is glutathione? Formed by 3 amino acids... And a detoxifying agent
46. Which of the following drugs has effect on the conduction of heart? verapamil
47. year in which RBI was nationalized.
48. Weight of adult suppository
49. delta value of acetylene compared with ethylene
50. Polarity of acetone compared with methanol
51. There were 2.3 questions on cis. Trans and R. S config.

52. Questions on mental ability. Funda was very simple like in 1 question it was code for a word like a. 1. b. 2. c. 3 and in another question it was 'a' related with b, c with d like that.
53. IR range for acid chloride
54. IR range for 6 membered beta lactam
55. Scientists associated with tetrahedral geometry?
56. Geomatrix system is associated with? TDDS (ans)
57. rate of release of drug from TDDS is dependent on?
58. site directed mutagenesis?
59. Code of tryptophan
60. Base peak of MS
61. Strongest Immobilization technique?
62. Vmax refers to?
63. Tolvaptan is? Vasopressin antagonist
64. Min member required for Cooperative society?
65. Approved drug for Alzheimer disease? Donepezil and Rivastigmine
66. Imino amino acid? Proline
67. Analkiren is? Renin inhibitor
68. Which of this is not s/e of metoclopramide? Ans. Nephrotoxicity
69. Which of this crosses BBB? Ans. Unionized drugs
70. Disguised unemployment refers to?
71. Which of this is not an economic activity? Ans. a student playing cricket in school
72. Company issues bonus shares to? Ans. Existing share holders
73. DNA right handed helix is characterized by?
74. Which of this drug is most distributed in fat? Ans. Rifampicin
75. Which anti. TB crosses BBB? Ans. Streptomycin
76. Rupee note is issued by? Ans. Issuing department of RBI
77. Phosphatase test in Pasterisation of milk is done for? Ans. For absence of Phosphatase (doubtful)
78. Which of this is not hydrophilic polymer? Ans. Ethyl cellulose

79. Which of this is a Weak electrolyte? Ans. Urea
80. Penicillin acylase is also known as? Ans. Penicillin amidase
81. Carbon carbon triple bond in IR range? Ans. 2150
82. Acetylene NMR shift compared Ethylene? Options were increases or decreases (check out)
83. Cell immobilization diverse the reaction towards? Options were maintenance of cell or increases product (Check out)
84. Aprotic solvent eg?
85. Starting material for Furazolidine?
86. Relapsing fever is caused by? Ans. P. Vivax
87. Lead compound? Refer definition
88. Subs with no efficacy and high affinity? Ans. Antagonist
89. Hansel Paddle apparatus is used for? Ans. For consistency of Semisolids
90. Planning commission was constituted in which year? Check out.
91. Planar Chromatography is related to? Ans. Paper/TLC
92. In suspension which polymorph is used? Ans. Metastable (Check)
93. In suspension the particle size not greater than?
94. In emulsion the particle size of dispersed phase is not greater than?
95. Which of this method is not used for study of Polymorphism? Ans. HPLC
96. Content uniformity test is done for? Ans. Potency
97. Which of this are not official tests for tablet? Ans. Friability
98. Double bond determined by? Options are Bromination, Ozonolysis, and Hydrogenation, all of above...
99. Antimarkonikov addition of HBr to styrene gives? Ans. Ph. CH<sub>2</sub>. CH<sub>2</sub>. Br
100. Which of this is homoannular?
101. Regioisomer?
102. Highest protein synthesis occurs in? Ans. Hepatocytes (Check)
103. PKa < 3 where will the least absorption occur? Ans. Stomach
104. Aminoguanidine is inhibitor of? Ans. Nitric oxide Synthase
105. Hallucinogenic effect mediated thru which receptor? Ans. GABA

106. Polyester is made of?
107. Effect of Plasticizer on glass transition temperature?
108. Which of this is added to plasticize the shell in SGC? Ans. Sorbitol
109. Pyrimethamine acts by? Ans. Dihydrofolate inhibitor
110. Oral hypolipidemic drug acts? Ans. Inhibiting HMGCo. A reductase
111. Tropine shows optical activity because?
112. Cis and Trans Cinnamic acid are? Ans. Diastereomers
113. Which drug is contraindicated in Diabetes? Ans. Propranolol
114. De novo ligand synthesis? Refer definition
115. Symbol P in QSAR is for? Ans. Partition Coefficient
116. Structure of abietic acid was given. How many stereoisomers possible?
117. R. COO. CH (CH<sub>3</sub>)<sub>2</sub> which type of peaks shown by terminal methyl protons of isopropyl group? Ans. Doublet
118. All are true for Anandamide except? Ans. It is an endogenous antagonist.
119. T<sub>1/2</sub> of drug is 12hrs then what time is req for achieving 90% concentration in Plasma? Ans. 40hrs
120. Endogeneous pyrogen in fever? IL. 2
121. Infective hepatitis is confirmed by increase in?
122. Highest ATP is produced by? Ans. 1mol of fat
123. Nitrobenzene directs the incoming group to? Ans. Meta position
124. Comparison of acidity of nitrobenzoic acid and methoxybenzoic acid?
125. Cimetidine s/e? Ans. Gynaecomastia
126. Cimetidine effects by? Ans. Induction of other enzymes
127. Carbenicillin and Gentamicin not given in same vial because? Ans Gentamicin is ppted
128. Equilibrium of drug concentration is achieved lastly in? Ans. Fat (Check)
129. Aspirin acts by? Ans. Irreversible inhibition of COX. 1
130. Impurity profiling uses which technique? Ans. GC. MS
131. Which of this is not aromatic? Options were cycloheptadiene cation, Cycloheptadiene anion, Cyclopentadiene cation, Ferrocene

132. Bond length in H<sub>2</sub>? Ans. 1.2A
133. Ipratropium is used in Asthma bcoz of? Ans. Anticholinergic effect
134. When residual air is replaced by steam in autoclaving for? Ans increasing pressure
135. When does the quantity of oxygen increases in water? Ans. When vapor press is increases
136. Disadvantage of Plastic containers?
137. Which is not true for Endothelin?
138. Favorsky rearrangement?
139. In injectables, glass vials are sterilized by? Ans. Autoclaving
140. allosteric binding means\_\_\_\_\_
141. when should dissolution of partnership be done for a firm
142. why is multi drug treatment given in TB.
143. far IR region lies in the range of:
144. Which of this is not an organometallic compound (Do structure of that very nicely)?
145. What is electrophoretic mobility?
146. preparative HPLC is used for?
147. Bredts rule statement?
148. How does the company start cash flow in market? Ans. By issuing Shares
149. Two chains of Insulin are linked by? Ans. Disulphide bonds
150. Which motor protein in muscle is dependent on ATP for their activity? Ans. Myosin
151. Given structure is? Ans-Sawhorse type configuration (See basic arrangement in Sawhorse configuration from Morrison)
152. Which immunoglobulin is expressed in Allergic reactions? Ans. IgE
153. In penicillin fermentation, why is the pH first adjusted to 2? Ans. To decrease the solubility
154. In 3. Beta hydroxy steroid with A & B ring trans fused, what is relation between 10. Beta hydroxy and 3. Beta hydroxyl group? Ans. Axial, equatorial, etc (Check out)
155. Same question as 129th from NIPER 2005 paper (Check out)
156. Which of this is titrated by Iodometry (Do this list nicely)?

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157. Organism that require very low conc of oxygen but cannot survive high amount of oxygen are called? Ans-Microaerophilic

158. The active ion in Friedal crafts reaction is? Ans. Cation

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