

MOHIT KOLADIA

Baroda College Of Pharmacy



Just Dream for this campus and you could be a part for this reputed institute with your hard work and and proper direction. Questions in NIPER are repeated every year so go through it nicely and try to find correct answers for the questions. This is my small contribution for all NIPER Aspirants...

I have made the list of questions asked in NIPER JEE-2009.

All the best friends...

Mohit Koladia

Baroda College Of Pharmacy

NIPER JEE-2009 questions

- 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 rearrangement?..cope, favorskii, claisen..
- 19-baeyer villaeger oxidation catalyst?..ans..peroxy 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..wht will happen?
electronic distribution.change in spin,orientation. all..
- 26- Family of haemophilus-Pasteurellaceae
- 27-SN2 reaction..There is..retention of orientation , inversion (ans)
- 28-role of ropirinole
- 29-side effects of antipsychotic drugs expect?..
- 30-properties of bases of supp are true...except?..base shud 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 cud 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 Pastuerisation 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... Ans - all of above

99-Antimarkonikov addition of HBr to styrene gives? Ans- Ph-CH₂-CH₂-Br

100-Which of this is homoannular?

101- Regioisomer?

- 102-Highest protein synthesis occurs in? Ans- Hepatocytes (Check)
- 103- $\text{PKa} < 3$ 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- $\text{R}-\text{COO}-\text{CH}(\text{CH}_3)_2$ 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- $\text{T}_{1/2}$ 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 H₂? Ans-1.2Å

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 pressure 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? (Ratio of.....)

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)

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 Friedel crafts reaction is? Ans- Cation

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