

# ROSE PHARMACY CLASSES

## (NIPER JEE-10) Model Test Paper-IV

**Max. Marks:100****Time: 2 Hours****Paper Code-101 C****Total Questions: 200****25 % negative marking for each wrong answer**

**Instructions:-** 1. Check that your Paper set contains all the pages & 200 questions.  
2. Mention the paper code on your answer sheet & use HB pencil only.

**Q.1** Which is cytotoxic from following marine?

- a) Leostatin      b) Merostatin      c) bryostatin      d) Aquastatin

**Q.2** To avoid crystallization of syrup which substance is added?

- a) polyhydric alcohols   b) Monohydric alcohol   c) polyhydric acid   d) Monohydric acid

**Q.3** Particle size of fluid energy mill is?

- a) 1-30 nanometer   b) 1-30 micrometer   c) 30-60 nanometer   d) 30-60 micrometer

**Q.4** Use of Gallic acid?

- a) Antiseptic      b) Anti-leprotic      c) Antioxidant      d) Anti-epileptic

**Q.5** HLB of o/w emulsion.

- a) 1-3      b) 3-8      c) 8-13      d) 13-16

**Q.6** Range of Visible light?

- a) 0.4-0.8 micrometer   b) 4-8 micrometer   c) 40-80 micrometer   d) 400-800 micrometer

**Q.7** Source of IR is

- a) Xenon arch lamp   b) Quartz-iodine filament   c) Nernst glower   d) none of these

**Q. 8** Hydrogen bonding determined by which method?

- a) Kharasch      b) Watson      c) Crick      d) Raman

**Q.9** Most intense peak in MASS spectra?

- a) Middle peak      b) Low peak      c) Base peak      d) All these

**Q.10** How to determine non-UV active structure?

- a) Polymerization   b) Derivatization   c) Polymorphism   d) Anantiomerism

**Q.11** Energy comparison of UV, IR & NMR. Means put them in ascending order of their energies.

- a) NMR least < IR < UV highest      b) UV least < IR < NMR highest  
c) IR least < NMR < UV highest      d) NMR least < UV < IR highest

**Q.12** Reference standard used in NMR?

- a) Tetra methyl Lead   b) CH<sub>2</sub>Cl<sub>2</sub>   c) Tri methyl Silane   d) Tetra methyl Silane

**Q.13** In IR calibration which substance is used?

- a) Air      b) Water      c) Ethanol      d) Acetone

**Q.14** What does RS means in IP?

- a) Resonance Sinister   b) Reference Standard   c) Both a & b   d) none of these

**Q.15** Sparingly soluble means?

- a) 1 to 10 parts      b) 10 to 30 part      c) 30 to 100 parts      d) More than 100

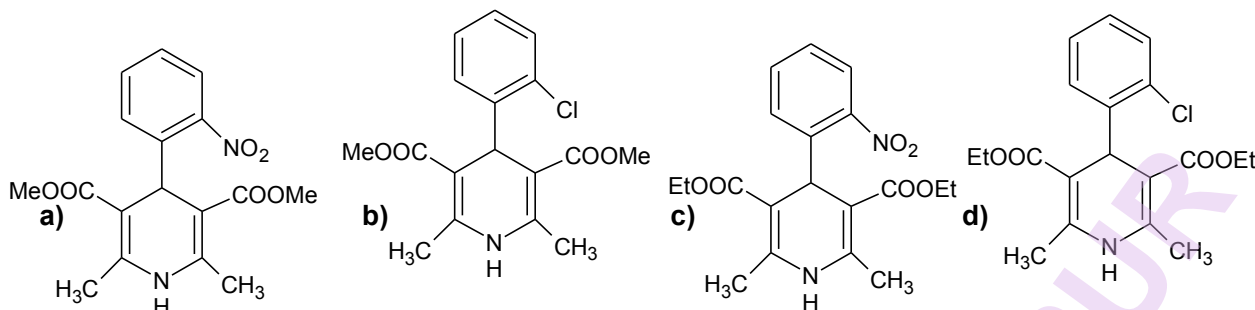
**Q.16** Cough is side effect of?

- a) Guanthidine      b) Clonidine      c) Minoxidil      d) captopril

- Q.17** Capsule '000' size capacity?  
 a) Largest                      b) Middle                      c) Smallest                      d) none of these
- Q.18** Green bones are made up of which type of gelatin?  
 a) Type A                      b) Type B                      c) Both a & b                      d) none of these
- Q.19** Amoebiasis is caused by?  
 a) Plasmodium Falciparum    b) E. histolytica    c) Tinea solium    d) Mosquito
- Q.20** Free trade port in India?  
 a) Calcutta    b) Vishakhapatnam    c) Cochin    d) Kandla
- Q.21** Ostwald ripening is related with?  
 a) Emulsion    b) Suspension    c) Parenteral    d) Oral tablets
- Q.22** In clock 12'o clock is north east then at 1:30pm what would be direction according to hour needle?  
 a) West                      b) North                      c) East                      d) South
- Q.23** In monosubstituted cyclohexane which structure will be stable?  
 a) Chair                      b) Boat                      c) Twist Boat    d) None of these
- Q.24** Stereochemistry of Alanine is  
 a) Optically active    b) L-form is found in nature    c) Both a & b    d) None
- Q.25** How many ATP is formed in complete glycolysis?  
 a) 24                      b) 30                      c) 36                      d) 42
- Q.26**
- $$\begin{array}{ccccccc}
 & & & & \text{O} & \text{B} & \text{r} \\
 & & & & | & | & | \\
 \text{R} & \text{C} & \text{O}_2 & \text{N} & \text{H} & \longrightarrow & 2 \quad + \quad 3 \quad \text{C} \quad \text{OR} \quad \text{N} \quad \text{H} \quad \text{H} \quad \text{S}
 \end{array}$$
- a) Curtius rearrangement    b) Hofmann rearrangement    c) Lossen rearrangement    d) None
- Q.27** Synthesis of Carboxylic acid by.....increases the length of carbon chain  
 a) Grignard reagent    b) Nitrile Synthesis    c) Both a & b    d) None of these
- Q.28** Reaction of Acetaldehyde with Grignard reagent yields  
 a) Primary alcohol    b) Secondary alcohol    c) Tertiary alcohol    d) All of these
- Q.29** Wayson stain test is used for diagnosis of  
 a) AIDS                      b) Plague                      c) Typhoid                      d) Syphilis
- Q.30** National Centre for Cell Science is located at  
 a) Pune                      b) Manesar                      c) Hyderabad                      d) New Delhi
- Q.31** Which one of the following is not electromagnetic in nature?  
 a) Cathode rays                      b) X-rays                      c) Gamma-rays                      d) Infrared-rays
- Q.32** Which one of the following is teratogenic vitamin?  
 a) Folic acid                      b) Ascorbic acid                      c) Niacin                      d) Vitamin A
- Q.33** In cyclic carbohydrates stereochemistry is known as?  
 a) Epimer                      b) Isomer                      c) Anomer                      d) None of these
- Q.34** Propranolol is contraindicated in?  
 a) Hypertension                      b) Angina                      c) Arrhythmia                      d) Asthma
- Q.35.** Highest first pass metabolism of following?  
 a) Propranolol                      b) digoxin                      c) Phenobarbital                      d) phenytoin
- Q.36** Which one of the following is cardio toxic  
 a) Mitomycin    b) Adriamycin    c) Dactinomycin    d) Bleomycin
- Q.37** Mechanism of action of paclitaxol is?  
 a) Polymerization of spindle    b) Depolymerization of spindle    c) both    d) None

- Q.38** Therapeutic index denotes  
a) Margin of safety    b) efficacy of drug    c) Both a & b    d) none of these
- Q.39** Selective  $\beta_1$  blocker is?  
a) Atenolol    b) Propranolol    c) Prazosin    d) Carvedilol
- Q.40** Which one of the following is the drug of choice for the control of seizures in eclampsia  
a) Clonazepam    b) Sodium Valproate    c) Phenytoin sodium    d) Magnesium sulphate
- Q.41.** Receptors are made up of?  
a) Phospholipids    b) Carbohydrates    c) Triglycerides    d) Proteins
- Q.42** Cytokines are?  
a) Cell generated toxic interleukins    b) Humoral Interleukins  
c) Plasmogen activated factor    d) Lippopolysaccharides
- Q. 43** Morphine act through Which receptor?  
a)  $\alpha$ -receptors    b)  $\beta$ -receptors    c)  $\mu$ -receptors    d) None of these
- Q 44** Nicotinic receptor work through which messenger system?  
a) cAMP    b)  $IP_3$  + DAG    c)  $Na^+$  &  $Ca^{2+}$     d) None
- Q. 45** Example of Neurodegenerative disorder.  
a) Alzheimer's Disease    b) Diabetes    c) Malaria    d) Gonorrhea
- Q.46** Which is action of Ach?  
a) Dryness of mouth    b) blurred vision    c) Hastens G.I. emptying    d) All
- Q. 47** Name of Ginseng?  
a) Withania Somnifera    b) Panax    c) both    d) none
- Q.48** Who is father of Chemotherapy?  
a) A. Fleming    b) Louis Pasteur    c) Paul Ehrlich    d) Waskman
- Q.49** Out of following which is not containing bacteria?  
a) Soil    b) Ice    c) Dust    d) Blood
- Q.50** Drug approved by US FDA for alopecia?  
a) Hydralazine    b) Cyclophosphamide    c) Minoxidil    d) Sufentadil
- Q.51** Drug interaction is hazardous of following?  
a) terfenadine + erythromycin    b) Ampicillin + Probenecid  
c) Pyremethamine + Sulfadoxine    d) Paracetamol + Diclofenac
- Q.52** Which of following drug cause cardiac arrhythmia?  
a) terfenadine    b) Omeperazole    c) Aspirin    d) Loratidine
- Q.53**  $\beta_2$ -selective agonist is  
a) Phenylephrine    b) Metaraminol    c) salbutamol    d) Propranolol
- Q.54** Cerebral Malaria is treated by  
a) Pamaquine    b) Primaquine    c) Pentaquine    d) quinine
- Q.55** Which malaria is deadly?  
a) P. vivax    b) P. Malariae    c) P. falciparum    d) P.Ovalae
- Q.56** What is end product in Beckmann reaction when start with benzophenone  
a) Acetanilide    b) Benzophenone oxime    c) Benzanilide    d) Ketoxime
- Q.57** Tamoxifen used in breast cancer act as?  
a) estrogen agonist    b) estrogen antagonist    c) Both a & b    d) none
- Q.58** Metallic elements detected by?  
a) AAS    b) IR    c) NMR    d) Mass
- Q.59** Enthalpy is measure of ?

- a) Difference in bond in Energy      b) Change in Free energy    c) Both    d) None
- Q.60 Luminescence, fluorescence and phosphorescence is a type of?  
a) Emission spectroscopy    b) absorption Spectroscopy    c) both    d) none
- Q.61 Rate Kinetic deals with?  
a) order      b) molecularity      c) conc. of reactant    d) All of these
- Q.62 In exothermic process increase in temp indicate what?  
a) Reactant is more    b) product yield is more    c) Reaction stopped    d) equilibrium
- Q.63 Cough syrup mostly contains which alkaloid?  
a) Codeine      b) Morphine      c) Thebaine      d) All of these
- Q.64 Terpenoid are obtained from which biosynthetic pathway?  
a) Shikmic acid pathway    b) mevalonic acid pathway    c) Both a & b    d) None
- Q.65 In diosgenin which ring is present?  
a) Anthracene    b) Flavanoid    c) Quinoline    d) Steroidal
- Q.66 In bicyclic triterpenoid how many isoprene units are present?  
a) 4      b) 5      c) 6      d) 7
- Q.67 In dipeptide bond how many amino acids are present?  
a) 2      b) 3      c) 4      d) 1
- Q.68 Which of following contain chromosome or DNA?  
a) mitochondria    b) ER    c) Golgibody    d) cytoplasm
- Q.69 t-RNA function  
a) Protein Biosynthesis    b) Gene expression    c) Lipid formation    d) All
- Q.70 IPEC deals with?  
a) Excepiant    b) US FDA    c) GMP    d) GLP
- Q.71 Thevetia nerifolia is source of  
a) Saponin glycoside    b) Cardiac glycoside    c) bitter glycoside    d) all
- Q.72 Which one of the following is used leaves as a biological source  
a) Coffee arbica    b) Theobroma    c) Thea sinensis    d) Rauwolfia
- Q.73 Phase- IV clinical trials deals with?  
a) Pharmacokinets    b) Side effects    c) Adverse drug effect    d) Post marketing surveillance
- Q.74 IND is for?  
a) filling of NCE New Chemical Entity now changed to NME New Molecule Entity as biomolecules are not considered as chemical    b) NDDS    c) Both    d) None
- Q.75. Minimum velocity required for laminar air flow unit?  
a) 100      b) 200      c) 300      d) 400
- Q.76 Cardiac  $\text{Ca}^{++}$  channel blocker?  
a) phenytoin    b) Minoxidil    c) Digitalis    d) nifedipine
- Q.77  $\text{Ca}^{++}$  channel use which type of messenger system?  
a) cAMP    b)  $\text{IP}_3/\text{DAG}$     c)  $\text{Na}^+/\text{Ca}^{2+}$  Ions(Voltage sensitive)    d) Nucleus
- Q.78 Fill in the gap: stu\_\_st\_\_ws\_\_vw  
a) vuwvtu    b) vwutvu    c) vwuvtu    d) vvuutt
- Q.79 Which of following is endothermic?  
a) Adsorption    b) crystallization    c) vaporization    d) all
- Q.80 Betaine structure is related to  
a) Kolbe reaction    b) Bayer-Villger raction    c) Perkin reaction    d) Witting reaction
- Q.81 Structure of nifedipine



- Q.82** Which one is known as EDRF(Endothelial Derived Releasing Factor)  
 a) CO                      b) NO                      c) CO<sub>2</sub>                      d) SO<sub>2</sub>
- Q. 83** How to determine unsaturation?  
 a) bromination              b) hydrogenation              c) ozonolysis              d) None of these
- Q.84** NMR signals obtained in 1,4- dioxane  
 a) 1                      b) 2                      c) 3                      d) none
- Q.85** Reaction occurring in ethane?  
 a) SN<sup>1</sup>                      b) SN<sup>2</sup>                      c) E<sub>1</sub>                      d) E<sub>2</sub>
- Q.86** Tomato red pigment is due to?  
 a) Capcithin                      b) Lycopene                      c) Carotene                      d) Chlorophyll
- Q.87** Insulin releases from which cells?  
 a) α                      b) β                      c) γ                      d) δ
- Q.88** PG is released by  
 a) COX-I                      b) COX-II                      c) TPA                      d) All
- Q.89** Aspirin is?  
 a) reversible COX inhibitor              b) Irreversible COX inhibitor              c) both                      d) none
- Q.90** Phenytoin used in?  
 a) Grandmal epilepsy                      b) Digitalis induced arrhythmia              c) both                      d) none
- Q.91** Serotonin is neurotransmitter  
 a) Inhibitory                      b) Excitatory                      c) Mixed                      d) None of these
- Q.92** Alcohol dehydrogenase converts  
 a) methanol to formaldehyde                      b) Acetone to sec alcohol  
 c) ethanol to acetaldehyde                      d) alcohol to amide
- Q.93** Major product obtained from purine metabolism is?  
 a) thiouric acid                      b) glucuronic acid                      c) allopurinol                      d) uric acid
- Q.94** Asafoetida is impoted from  
 a) USA                      b) UK                      c) Afghanistan                      d) France
- Q.95** Which of the following drug acts on PPARγ (Proxisome Proliferators Activated Receptor)  
 a) Simvastatin                      b) Filagrastin                      c) Rosiglitazone                      d) Sargramostin
- Q.96** Cetyl ether of Polyethylene glycone is known as?  
 a) Avigel                      b) Cetomacrogol                      c) Both                      d) none
- Q.97** Detector used in spectrophotometer?  
 a) Bolometer                      b) Flame ionization                      c) Photo multiplier tube                      d) Electron capture
- Q.98** Living organisms are detected by?  
 a) Bright field microscopy                      b) Dark field microscopy                      c) Both                      d) none
- Q.99** Which of following does not contain Dibenzoazipine ring system

- a) Clozapine      b) Imipiramine      c) Carbamezapine      d) All of these
- Q.100** Rifampicin used not only in TB but also in?  
a) Diarrhea      b) Urinary disorders      c) epilepsy      d) Leprosy
- Q.101** Immunoglobulin has?  
a) 2 light chain      b) 2 heavy chain      c) disulfide bond      d) all of these
- Q. 102** Which of following not causing enzyme induction?  
a) Phenobarbitone      b) Carbamazepine      c) Sulphonamide      d) Phenytoin
- Q.103** Detector used in IR?  
a) Photo array      b) Thermal conductivity      c) katharometer      d) thermocouple
- Q.104** Function of microvilli is?  
a) Increase surface area      b) decrease surface area      c) Both      d) none
- Q.105** pH of 0.005M HCl?  
a) 2.23      b) 3.2      c) 1.2      d) 4.2
- Q.106** which one of the following is not a hyphenated technique  
a) GC-MS      b) LC-MS      c) GC-IR      d) HPLC
- Q.107** If  $x - 2 = y + 2$  &  $x + 2 = 2(y - 2)$ . Then what are the value of x and y  
a) 10 & 14      b) 14 & 10      c) 6 & 8      d) 8 & 6
- Q.108** Neostigmine does not cross BBB because this is  
a) Nonpolar      b) Polar      c) Lipophilic      d) Hydrophobic
- Q.109** Drugs which cross BBB are?  
a) Ionic      b) Polar      c) Lipophilic      d) Hydrophilic
- Q.110** Which is most commonly used HPLC?  
a) Normal      b) Reverse phase      c) Both      d) none
- Q.111** Phenolphthalein is?  
a) Acid base indicator      b) Complexometric indicator  
c) Precipitation Indicator      d) Oxidation –reduction indicator
- Q.112** Which one of the following drug is assayed by acid-base back titration?  
a) Isoniazid      b) Ascorbic acid      c) Aspirin      d) Paracetamol
- Q.113** Choose the correct one 9, 27, 31, 155, 161, 1127, ?  
a) 1135      b) 1288      c) 316      d) 2252
- Q.114** Amiloride and Spiranolactone differs in  
a) Site of action      b) Pharmacological action      c) Potassium sparing      d) None of these
- Q.115** What is Statin's mechanism?  
a) Reduce carbohydrate      b) reduce protein      c) Reduce cholesterol      d) none
- Q.116** Which of following is not related with enalapril  
a) Quinopril      b) Prindopril      c) Ramipril      d) Candesartan
- Q.117** Equation of Angle of Repose.  
a)  $\tan \alpha = H/R$       b)  $\sin \alpha = H/R$       c)  $\tan \alpha = H/2R$       d)  $\sin \alpha = H/2R$
- Q.118** Character of liposome is?  
a) Lipid bilayer with cylindrical shape      b) Lipid bilayer with cone shape  
c) Lipid bilayer with cube shape      d) Lipid bilayer with square shape
- Q.119** Eye drops and parenteral differ in?  
a) eye drop contains preservative      b) parenteral contains preservative      c) Both      d) none
- Q.120** Colchicine is used in  
a) Gout      b) Polyploidy      c) both a & b      d) none of these
- Q.121** Omeprazole act by?

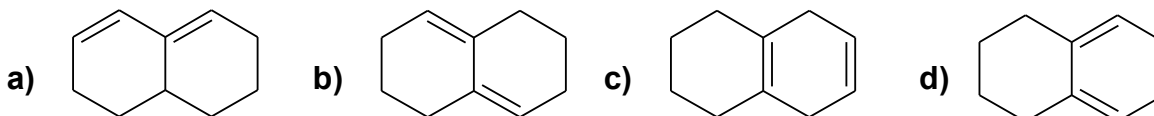


- a) Inhibiting  $H^+/K^+$ -ATPase   b)  $M_1$ -antagonist   c) Both a & b   d) none of these
- Q.122** Muscarinic antagonist used in ulcer.  
a) Olanzapine   b) Pirenzepine   c) Piperazine   d) Clozapine
- Q.123** Most commonly used in COPD?  
a) L-dopa   b) Propranolol   c) Apomorphine   d) Selegline
- Q.124** Dopamine agonist used in COPD (Chronic Obstructive Pulmonary Disease)  
a) Mensesine   b) Carbidopa   c) Amantadine   d) Bromocriptine
- Q.125** Which of this is not acting on nuclear receptor?  
a) Sex Hormone   b) Thyroid Hormone   c) Trypsin   d) Glucocorticoids
- Q.126** Nucleus present in coumarin.  
a) Flavonol   b) Chromane   c) Pyrane   d) Furan
- Q.127** Which of following is used in vascular disorder?  
a) Gingko biloba   b) Quallia Saponaria   c) Dioscorea deltoida   d) Bacopa Monirra
- Q.128** Podophyllotoxin is?  
a) Anthracene   b) Chromane   c) Lignan   d) Flavanoids
- Q.129** Bacterial cell wall consists of?  
a) Nucleoproteins   b) Cellulose   c) Heteropolysaccharide   d) None of these
- Q.130** In indole biosynthesis which amino acid is used?  
a) Phenylalanine   b) Tyrosine   c) Histidine   d) Tryptophan
- Q.131**  $E_2$  elimination is  
a) Stereoselective   b) Stereospecific   c) both   d) none
- Q.132** which of the following does not show any NMR spectrum  
a)  $^{14}N$    b)  $^{15}N$    c)  $^{16}O$    d)  $^{17}O$
- Q.133** Azithromycin is prepared by  
a) Beckmann   b) Hoffman   c) Lossen   d) All of these
- Q.134** Acyclovir is most widely in the treatment of  
a) Genital Herpes simplex   b) HIV   c) Sarcoma   d) Influenza
- Q.135** Anisotropy is related to  
a) NMR   b) Difference in electric potential   c) IR   d) None of these
- Q.136** Threo-3-Chloro-2-butanol is  
a) Dextro-enantiomer   b) Levo-isomer   c) Both a & b   d) None of these
- Q.137** Which one of the following is  $\alpha_1$ -antagonist  
a) Steptozocin   b) Alfuzosin   c) Pentazocin   d) All of these
- Q.138** The treatment of ketone with peracid in presence of acid catalyst to form ester or lactone is known as  
a) Baeyer-Villiger rearrangement   b) Beckmann rearrangement  
c) Stobb rearrangement   d) Fries rearrangement
- Q.139** Who is Supreme commander of Indian defense System?  
a) Vice president   b) President   c) Chief General   d) Air Marshal
- Q.140** Anti-Markovnikov addition of HBr is not observed  
a) Propene   b) But-2-ene   c) Pent-2-ene   d) butene
- Q.141** The compound that is most reactive towards electrophilic nitration  
a) toluene   b) benzene   c) benzoic acid   d) nitrobenzene
- Q.142** The condensation reaction between two ester molecules in presence of a strong base is known as  
a) Aldol condensation   b) Haloform reaction   c) Claisen condensation

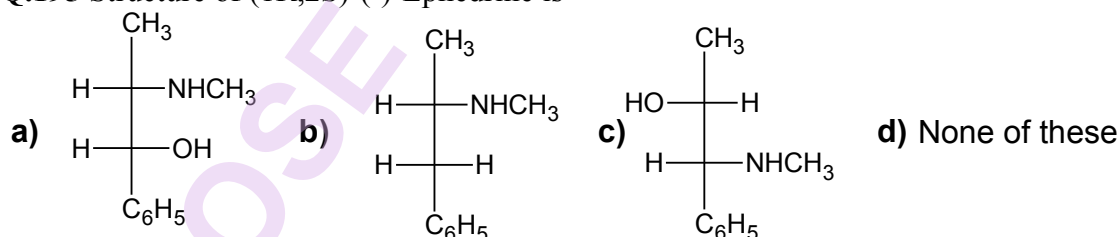
- d) Reformatsky reaction
- Q.143** Which of the following disaccharides is nonreducing  
a) (+)-maltose      b) (+)-cellobiose      c) (+)-lactose      d) (+) Trehalose
- Q.144** Shortening the carbon of aldoses is known as  
a) Kiliani-Fisher synthesis      b) Ruff degradation      c) Oxidative degradation  
d) Arndt-Eistert synthesis
- Q.145** Amylopectin is polymer of  
a)  $\alpha$ -D-glucose      b)  $\beta$ -D-glucose      c)  $\alpha$ -D-fructose      d)  $\beta$ -D-fructose
- Q.146** National Rice Research centre is located at  
a) West Bengal      b) Bihar      c) Orissa      d) Jharkhand
- Q.147** In law of thermodynamics use of perpetual machine is  
a) Possible      b) Not possible      c) applicable      d) some time may be possible
- Q.148** Andrographolide presents in  
a) Kalmegh      b) Nutmeg      c) Ginseng      d) Gentian
- Q.149** Ashwagandha contains chemical constituents  
a) Panxoside      b) Withanolides      c) Veratrum      d) Sapogenin
- Q.150** Flow properties measured by  
a) Bond angle      b) Karl Index      c) angle of repose      d) Torsion angle
- Q.151**  $\nu_{\text{C=O}}$  (i.e. wave number carbonyl group) for 1. benzoic acid, 2. phenylacetate and 3. acetophenone, give the sequence  
a)  $1 > 2 > 3$       b)  $2 > 1 > 3$       c)  $2 > 3 > 1$       d)  $3 > 1 > 2$
- Q.152** Azole has high affinity for antifungal activity, basic requirement is  
a)  $\text{Fe}^{3+}$       b) Ergosterol      c) Phospholipid      d) Glycoprotein
- Q.153** Cardiac  $\text{Ca}^{2+}$  channel in heart are  
a) Ligand gated      b) Voltage gated      c) Glycoprotein gated      d) all of these
- Q.154** DAEWOO of South Korea is joined in India with which company  
a) Hindustan      b) DCM      c) Maruti      d) None of these
- Q.155** Addition of chromophore (e.g double bond) give  
a) Bathochromic shift      b) Hypsochromic shift      c) Hyperchromic shift  
d) Hypochromic Shift
- Q.156** First pass metabolism is caused by which of the following route  
a) Oral      b) Vaginal      c) Rectal      d) Parenteral
- Q.157** Infectious hepatitis involves  
a) Alanine amino transferase      b) Aspartate amino transferase      c) Creatinine kinase  
d) none of these
- Q.158** Gas is liquified or compressed to solid by  
a) Ionic bonding      b) Linear hydrogen bonding      c) Covalent bonding      d) all of these
- Q.159** Introduction of DNA to bacteria is called as  
a) Traversing      b) Translocation      c) Transformation      d) none of these
- Q.160** Insulin chain A & B are linked by  
a) Sulfide bond      b) Disulfide Bond      c) Carbonyl bond      d) Amide group
- Q.161** HPMC phthalate is used  
a) Film coating      b) Sugar coating      c) Enteric coating      d) None of these
- Q.162** Which of the following gum have anti diabetic activity  
a) Guar      b) acacia      c) Ghati      d) All of these
- Q.163** Unit of  $\delta$  for chemical shift is measured in



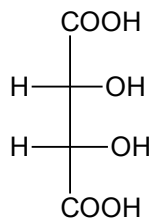
- a) Voltage      b) Tesla      c) ppm      d)  $\text{cm}^{-1}$
- Q.164** Reduction of alkyne with.....yields predominantly trans alkene  
a) sodium in liquid  $\text{NH}_3$     b) Lindlar catalyst    c) specially prepared palladium    d) All
- Q.165** HIV is caused by?  
a) Bacteria      b) Virus      c) Protozoan      d) Spirochetes
- Q.166** Circular dichroism spectroscopy is used for?  
a) Optically active compounds    b) optically inactive compounds    c) Both    d) None
- Q.167** Digitalis acts on  
a)  $\text{Na}^+ / \text{K}^+$  ATPase Pump    b)  $\text{H}^+ / \text{K}^+$  ATPase Pump    c) Proton Pump    d) None of these
- Q.168** Syphilis is caused by?  
a) Neisseria Gonorrhoea    b) Treponema Pallidum    c) Plasmodium    d) Sand fly
- Q.169** Acetazolamide acts by inhibiting the enzyme  
a) Carbonic Anhydrase    b) Angiotensin converting enzyme    c) Amylase    d) Somatostatin
- Q.170** Cis-2-methyl-1-cyclohexanol has most stable conformation  
a) 1a, 2a      b) 1e, 2e      c) 1e, 2a      d) 1a, 2e
- Q.171** Biphenyl compounds show which type of Isomerism  
a) Atropisomerism    b) Stereoisomerism    c) Conformational Isomerism    d) All of these
- Q.172** In  $\text{S}_{\text{N}}2$  reaction R-substrate is converted to  
a) RS-Product    b) Only S-product    c) Meso Product    d) None of these
- Q.173** Wolff-Kishner Reduction of ketone is done by the following Reagents  
a) Amalgated Zinc & Conc. HCl    b) Sn & Conc. HCl    c) Palladium    d) Hydrazine & Base
- Q.174** When Acetone is treated with iodine and sodium hypochloride what will be end product  
a) Chloroform    b) Iodoform    c) Ethyl Iodide    d) 2-propyl Iodide
- Q.175** Tinnitus is characteristic of one of the following  
a) Pinpoint Pupil    b) Hirsutism    c) Diabetes    d) Cinchonism
- Q.176** National Brain Centre is located at  
a) Pune      b) Manesar      c) Hyderabad      d) New Delhi
- Q.177** Which of the following is an example of Phospho protein  
a) Casein    b) Glycogen    c) Oxytocin    d) Gamma globulin
- Q.178** What is the characteristic IR absorption of ether linkage in epoxide?  
a)  $925\text{-}1050\text{ cm}^{-1}$     b)  $3050\text{-}3080\text{ cm}^{-1}$     c)  $1450\text{-}1500\text{ cm}^{-1}$     d)  $1270\text{-}1290\text{ cm}^{-1}$
- Q.179** Mohan starts from point A and walks 1 km towards south, turns left and walk 1 km Then he turns left again and walks 1 km. now he is facing  
a) East      b) West      c) North      d) South-west
- Q.180** If GLARE is coded as 67810 and MANSOON as 2395339 then how can RANSOM be coded  
a) 183952    b) 198532    c) 189352    d) 189532
- Q.181** Which is "milk of magnesia"  
a) Magnesium carbonate    b) Sodium bicarbonate    c) Calcium hydroxide    d) Magnesium hydroxide
- Q.182** The sum of two numbers is 42 and their product is 437. then the absolute difference between the number is  
a) 3      b) 4      c) 5      d) 7
- Q.183** A bicyclic diene,  $\text{C}_{10}\text{H}_{14}$  gives  $\lambda_{\text{max}}$  at 245 nm in its UV spectrum. What is its most likely structure according to Woodward-Fisher rule?



- Q.184** What will be O-H stretch in IR spectroscopy  
 a)  $3000-3300\text{ cm}^{-1}$  b)  $2500-2700\text{ cm}^{-1}$  c)  $2700-2900\text{ cm}^{-1}$  d) none of these
- Q.185** In the Proton NMR spectrum of  $\text{CH}_3\text{OCHClCH}_2\text{Cl}$ , which one of the following correctly describes the multiplicities of methyl, methylene and methane proton signal?  
 a) Methyl-triplet, Methylene-doublet & Methine-Singlet b) Methyl-triplet, Methylene-Singlet & Methine-Doublet c) Methyl-Singlet, Methylene-Triplet & Methine-Doublet d) Methyl-Singlet, Methylene-doublet & Methine-Triplet
- Q.186** Which one of the following amino acids liberates ammonia on mild hydrolysis and then yields a different amino acid?  
 a) Tyrosine b) Asparagine c) Alanine d) Hydroxyproline
- Q.187** Rifampicin inhibits transcription of DNA to RNA by  
 a) Altering RNA polymerase b) Incorporating into 3' end of mRNA c) Preventing the addition of 3- poly A tail to mRNA d) Intercalating between two GC pair of DNA
- Q.188** Which one of the following is not caused by Epstein-Barr virus?  
 a) Infectious mononucleosis b) Nasopharyngeal Carcinoma c) Burkett's lymphoma d) Retinoblastoma
- Q.189** The Human immunodeficiency virus (HIV) mainly attacks  
 a)  $\text{CD}_4$  and T-Lymphocytes b)  $\text{CD}_8$  & T-Lymphocytes c) B-Lymphocytes d) NK cell
- Q.190** Which one of the following is not used in acute asthma  
 a) Ipratropium bromide b) Montelukast c) Salbutamol d) Theophylline
- Q.191** Which one of the following mediators of inflammation is elaborated by platelets?  
 a) Serotonin b) Lysozyme c) Nitric oxide d) Cytokine
- Q.192** Relapse of malaria by *Plasmodium vivax* is due to the reactivation of additional developmental form within hepatocytes known as  
 a) Hypnozoites b) Sporozoite c) tachyzoite d) microgametocyte
- Q.193** *Helicobacter pylori* infection in a patient with peptic ulcer disease can be treated with the following except  
 a) amoxicillin b) clindamycin c) clarithromycin d) Metronidazole
- Q.194** Hydrolysis of glycerides yields  
 a) Salts of fatty acid b) Glycerol c) Soap d) all of these
- Q.195** Structure of (1R,2S)-(-)-Ephedrine is



Q.196



This is structure of

- a) (-)-Tartaric acid   b) (+)-Tartaric acid   c) Meso-Tartaric acid   d) none of these
- Q.197 The synonym of "AVARICIOUS" is  
a) Greedy   b) Jealous   c) Angry   d) Wicked
- Q.198 The antonym of "EXPOSTULATE" is  
a) Protest   b) Agree   c) Follow   d) Argue
- Q.199 With reference to protein biosynthesis in eukaryotes, which one of the following is not a stop codon?  
a) AUE   b) UGA   c) UAA   d) UAG
- Q.200 Digoxin is contraindicated in  
a) Atrial fibrillation   b) Congestive heart failure   c) Supraventricular tachycardia  
d) Hypertrophic cardiomyopathy

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## Answer Key(NIPER JEE-IV)

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