ROSE PHARMACY CLASSES
(NIPER JEE-10)Model Test Paper-III

Max. Marks:100	**Paper Code-101 B**	**Total Questions: 200**
Time: 2 Hours	**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 Guedels sign of anesthesia are based on the effect of
a) Diethyl ether **b)** Thiopental **c)** Ketamine **d)** Fentanyl

Q.2 Browning of vision due to retinal deposits is caused by
a) Thioridazine **b)** clozapine **c)** haloperidol **d)** Ariprazole

Q.3 One of the following is centrally acting analgesic, which increases serotonergic Transmission
a) Acetaminophen **b)** Aspirin **c)** Tramadol **d)** All of these

Q.4 Vaughan Williams classification system classify drugs used in
a) Parkinsonism **b)** Arrhythmia **c)** Huntington's disease **d)** none

Q.5 G-proteins are
a) Tetrameric **b)** Bimeric **c)** Trimeric **d)** Pentameric

Q.6 One of the following lipoprotein increases in type IV hyperlipidmia
a) LDL **b)** VLDL **c)** HDL **d)** Chylomicrones

Q.7……measure the absorption & urinary excretion of radiolabled Vitamin B_{12}
a) Carr's test **b)** Schilling test **c)** Icterus index **d)** none of these

Q.8 which of the following antiviral drugs used as Antiparkinsonian agent
a) Zidovudine **b)** Amantadine **c)** Foscarnet **d)** none of these

Q.9 Selective MAO-B inhibitor is
a) Clorgyline **b)** Moclobemide **c)** Tranylcypromine **d)** Selegilline

Q.10 Phosphodiesterase inhibitor used as Antiplatelate agent is
a) Amrinone **b)** Dipyridamol **c)** Ticlopidine **d)** Aspirin

Q.11 Antiemetic agent used during the cancer treatment is
a) Promethazine **b)** Metoclopropamide **c)** Odensetron **d)** Cinnarizine

Q.12 SMON Syndrome is related to
a) Metronidazole **b)** Diloxanide furoate **c)** Quiniodochlor **d)** Tetracycline

Q.13 Cardiotoxicity is side effect of one of the following
a) Dactinomycin **b)** Doxorubicin **c)** Bleomycin **d)** Mitomycin

Q.14 Macrolide derivative that used as Immunosuppresent is
a) Cyclosporin **b)** Tacrolimus **c)** Basiliximab **d)** all of these

Q.15 Hepatotoxicity is major side effect of following drugs except
a) Ethambutol **b)** Isoniazid **c)** Rifampicin **d)** Pyrazinamide

Q.16 All of the following drugs act better in urine except
a) Nitrofurantion **b)** Methanamine **c)** Cloxacillin **d)** Gentamicin

Q.17 All of the following macrolide derivatives are stable in acid except
a) Azithromycin **b)** Clarithromycin **c)** Roxithromycin **d)** Erythromycin

Q.18 Drug of choice for motion sickness
a) Cinnarizine **b)** Chlorpromazine **c)** Prochloperazine **d)** Haloperidol
Q.19 Plasma expander is
a) Dextrans **b)** Human Albumin **c)** Hetastarch **d)** all of these
Q.20 All of the following are prodrug except
a) Lisnopril **b)** Enalapril **c)** Perindopril **d)** Ramipril
Q.21 Competitive antagonist at $GABA_A$ receptor
a) Muscimol **b)** Bicuculline **c)** Flumazenil **d)** Picrotoxin
Q.22 class II Antiarrythmic drugs….
a) Slow phase 0 depolarization **b)** Suppress phase 4 depolarization
c) Shorten phase 3 depolarization **d)** Prolong phase 3 depolarization
Q.23 Mechanism of Antimanic drug Lithium is
a) decreases the release of NA & DA **b)** Li^+ partly replace Na^+ & affect ionic fluxes across brain cell **c)** Inhibit Inositol-1-phosphate & reduces supply of Inositol for regeneration of brain membrane **d)** all of these
Q.24 Mianserin, Antidepressant agent acts by
a) Inhibiting NA & 5-HT uptake **b)** Blocking presynptic α_2-receptor
c) Inhibiting NA & 5-DA uptake **d)** all of these
Q.25 All of the following true about Calcitonin except
a) Inhibits phosphate tubular reabsorption from kidney **b)** Inhibits of Calcium resorption from bone **c)** Inhibits Calcium tubular reabsorption from kidney
d) Increases resorption of Calcium from bone
Q.26 Corticosteroids are
a) Immunosuppresent **b)** Ant-inflammatory **c)** Antiallergic **d)** All
Q.27 Dihydroorotase dehydrogenase inhibitor used as DMARD is
a) Methtraxate **b)** Leflunomide **c)** Azathioprine **d)** Cyclosporine
Q.28 Enteric coated tablet
a) Protect drug from acidic environment **b)** Prevent gastric irritation **c)** delays absorption **d)** all of these
Q.29 Which of the following is true
a) Low pK_a, stronger the acid **b)** Low pK_a, stronger the base
c) High pK_a, weaker the acid **d)** High pK_a, stronger the acid
Q.30 Directly compressible diluent is
a) Microcrystalline cellulose **b)** Lactose **c)** Starch **d)** Methyl cellulose
Q.31 Wursters process means
a) Coacervation-phase separation **b)** Pan coating **c)** Air Suspention **d)** Solvent evaporation
Q.32. Bloom strength of gelatin is normally
a) 50 mg **b)** 200 mg **c)** 300 mg **d)** 400 mg
Q.33 Particle size determination of Aerosol is performed by
a) Cascade Impactor **b)** Gas Chromatography **c)** Anderson pipette **d)** pycnometer
Q.34 which of the following surfactant is amphoteric in nature
a) Benzalkonium chloride **b)** Lecithin **c)** Polyoxy ether **d)** Sodium lauryl sulphate
Q.35 The humidity in operating area of capsule manufacturing is normally
a) 60 % **b)** 50 % **c)** 40 % **d)** 20 %
Q.36 Millard reaction is obtained between

a) Hydrous lactose & amine **b)** Anhydrous lactose & amine **c)** Starch & amine **d)** all

Q.37 The phenomenon of increasing the solubility of various substances in water due to presence of large amount of additives is called.

a) Solubilization **b)** Hydrotropy **c)** Cosolvency **d)** Complexation

Q.38 Complete separation of tablet into two or more layer is called as

a) Capping **b)** Lamination **c)** Picking **d)** Mottling

Q.39 Spans are

a) Polyoxyethylene ether of fatty acid ester **b)** Sorbitol ester of fatty acid **c)** Combination of Polyoxyethylene & Polyoxypropylene **d)** High molecular weight polyethylene glycol

Q.40 Dilatometric curve is a plot of

a) Weight v/s temperature **b)** Specific volume v/s temperature **c)** Volume v/s temperature **d)** Density v/s temperature

Q.41 A reaction between vapor pressure & Absolute temperature of liquid is given by

a) Gibbs equation **b)** Clausius-Clapeyrone equation **c)** Arrhenius equation **d)** Vant Hoff equation

Q.42 Tesla is equal to

a) 10^{9} **b)** 10^{12} **c)** 10^{15} **d)** 10^{16}

Q.43 The temperature at which liquid passes into solid state is known as

a) Melting point **b)** Triple point **c)** Dew point **d)** Freezing point

Q.44 The movement of liquid through a plug or membrane across which potential is applied is called

a) Electrophoresis **b)** Electrodiffusion **c)** Electroosmosis **d)** all of these

Q.45 Material used in IUDs is

a) Copper **b)** Cobalt **c)** Aluminium **d)** Titanium

Q.46 Reynold number is related to

a) Sedimentation **b)** Flow rate **c)** Evaporation **d)** Filtration

Q.47 As per USP, Type II glass means

a) Borosilicate **b)** Treated soda lime **c)** Soda lime **d)** General purpose soda glass

Q.48 The vesicle of lipid bilayer enclosing an aqueous compartment is termed as

a) Noisome **b)** Aquasomes **c)** Liposome **d)** Mesosome

Q.49 Drop weight method is used to measure

a) Viscosity **b)** Specific volume **c)** Surface tension **d)** Solubility

Q.50 The energy required for size reduction is directly propotional to the product diameter is given by

a) Kick law **b)** Rault law **c)**Bond law **d)** Rittinger law

Q.51 In sterile dosage form, all of the following buffers are used except

a) Acetate **b)** Citrate **c)** Borate **d)** Phosphate

Q.52 LAL test is for

a) Bacteria **b)** Pyrogen **c)** Fungi **d)** Yeast

Q.53 Rault law is related to

a) Osmotic pressure **b)** Vapure pressure **c)** Atmospheric pressure **d)** all

Q.54 All of the following microorganism present in the eye except

a) S.epidermidis **b)** S. aureus **c)** Diphtheroids **d)** E. coli

Q.55 A brown tube is used as indicator in

a) Dry heat **b)** Moist heat **c)** Radiation **d)** Chemical

Q.56 Borrelia recurrentis is causative organism for
a) Plague **b)** Lyme disease **c)** Relapsing fever **d)** Dengue
Q.57 Non-ionizing radiation used for sterilization is
a) UV-rays **b)** X-rays **c)** γ-rays **d)** Cosmic rays
Q.58 Identification of Specific RNA is done
a) Southern blot **b)** Northern blot **c)** Western blot **d)** all
Q.59 Deposition of enzyme on carrier by applying electric current is called as
a) Electrophoresis **b)** Electroporation **c)** Electrodeposition **d)** Electrotransformation
Q.60 Polyacrylamide gel is used as material in which technique of immobilization
a) Covalent bonding **b)** Adsorption **c)** Entrapment **d)** Complexation
Q.61 Radioallergosorbent test is related to……..antibody
a) Ig E **b)** Ig M **c)** Ig A **d)** Ig D
Q.62 Pseudomonas dentrificants is source of
a) Riboflavin **b)** Vitamin B_{12} **c)** Ascorbic acid **d)** Amino acid
Q.63 In the fermentation process, animal or vegetable lipids are used as
a) Antifoaming agent **b)** Inhibitor of unwanted metabolic process in lack of O_2
c) Source of carbon **d)** pH maintaining agent
Q.64 Bohrs effect is related to
a) Lipids **b)** Plasma protein **c)** Heamoglobin **d)** Vitamins
Q.65 one of the vitamin is known as hormone
a) Vitamin D **b)** Vitamin A **c)** Vitamin C **d)** Vitamin E
Q.66 In nucleotide replacement, the phenomenon in which purine is replaced by pyrimidine & vice versa called as
a) transition **b)** Transversion **c)** Rearrangement **d)** Exchange
Q.67 Rapid amplification of DNA segment is called
a) General recombination **b)** PCR **c)** gene expression **d)** Blotting paper
Q. 68 In cell culture, the phase in which cells dies is
a) Lag phase **b)** Exponential phase **c)** Linear phase **d)** Senescent phase
Q.69 Icterus index is used to determine
a) Serum albumin **b)** Urine albumin **c)** Serum bilirubin **d)** Urine bilirubin
Q.70 Carboxyhemoglobin is formed by binding of hemoglobin with
a) CO **b)** CO_2 **c)** CHO **d)** COOH
Q.71 ETC is located at
a) Inner mitochondrial membrane **b)** Outer mitochondrial membrane
c) Intermembranous space **d)** mitochondrial matrix
Q.72 Removal of one carbon from lipid is occurs in
a) β-oxidation **b)** α-oxidation **c)** ω-oxidation **c)** π-oxidation
Q.73 In tissue culture, surface sterilization of explant is done by
a) Distilled water **b)** Methanol **c)** Sodium hypochloride **d)** Propiolactone
Q.74 Ornithine amino acid can never found in protein structures because
a) Inability to form peptide bond **b)** Due to lack of Zwitterions formation
c) Due to lack of codon **d)** Due to structural dissimilarity
Q.75 Lesch-Nyhan syndrome is due to the deficiency of
a) Hypoxnthine-guanine phosphoribosyltransferase **b)** Formyltransferase
c) Adenine-phosphoribosyltransferase **d)** Cyclohydrolase
Q.76 One of the following phospholipids posses antigenic activity

a) lecithin **b)** Cephaline **c)** Cardiolipin **d)** Plasmalogens

Q.77 Catalytic activity of enzyme is lost by
a) Extreme pH **b)** Extreme temperature **c)** Denaturating agent **d)** all of these

Q.78 Three dimensional structure of a protein & the relative stereochemical position of its atom determined by
a) X-ray crystallography **b)** IR-Spectroscopy **c)** ESR **d)** all of these

Q.79 Aldolase enzyme belongs to class
a) Transferase **b)** Lyase **c)** Ligases **d)** Hydrolase

Q.80 In un-competitive inhibition, inhibitor mainly binds to
a) Enzyme **b)** Substrate **c)** Enzyme & enzyme substrate complex **d)** Enzyme-substrate complex

Q.81 one IU of enzyme is equal to
a) 40 µketal **b)** 50 µketal **c)** 60 µketal **d)** 70 µketal

Q.82 Surgical cottons consist of……of seeds of Gossypium species
a) Trichomes **b)** Rhizomes **c)** Juice **d)** Exudation

Q.83 One of the following is soluble in alcohol
a) Asafoetida **b)** Acacia **c)** Gelatin **d)** Aloe

Q.84 Frothing on shaking of a powder with water indicates presence of
a) Tannis **b)** Saponins **c)** Carbohydrate **d)** protein

Q. 85 Color of Ergot is
a) White **b)** Dark-brown **c)** Yellow **d)** Green

Q.86 ……..color is observed in Murexide test for ……alkaloids
a) Yellow, Indole **b)** Blue, Imidazole **c)** Purple, purine **d)** Green, Pyrrole

Q.87 Shinoda test is used for
a) Tannis **b)** Protein **c)** Flavanoid **d)** Fat

Q.88 Bioactive product presented as dietary supplements are called
a) Drugs **b)** Neutraceuticals **c)** Cosmaceuticals **d)** none of these

Q.89 Famous insecticide BHC means
a) Benzene hexachloride **b)** Benzene heptachloride
c) Benzene hexaiodide **d)** Benzene heptaiodide

Q.90 Gibberellin A was isolated in 1938; which is actually a mixture of at least six gibberellins. One of them is GA3; which is termed as
a) Gibberellic acid **b)** Gibberllin **c)** Gibbane **d)** none of these

Q.91 Watson & ……. Announced discovery of DNA structure in…….
a) Sanger, 1960 **b)** Crick, 1953 **c)** Crick, 1960 **d)** Sanger, 1953

Q.92 Shikimic acid acts as precursor for biosynthesis of
a) Glycosides **b)** Steroids **c)** Amino acid **d)** none of these

Q.93 one of the following is correct
a) Stomata & water pore are same **b)** Stomata are immovable
c) Water pore are immovable **d)** Water pore are movable

Q.94 Ash content represent
a) Organic content **b)** Inorganic content **c)** Both a & b **d)** water contents

Q.95 Strong acrid smell of mustard oil is due to
a) Allyl isothiocynate **b)** Sinigrin **c)** Myrocin **d)** Myristic acid

Q.96 Bandha soap is related to
a) Myristica fragrans **b)** Acorus calamus **c)** Eugenia caryophyllus

d) Hedychium spicatum

Q.97 Bloom strength is related to
a) Lectin **b)** Gelatin **c)** Heparin **d)** Tyrosine

Q.98 High production of Crocus sativum in India
a) Tamilnadu **b)** Maharashtra **c)** Kashmir **d)** Assam

Q.99 Deadly night shade leaf is synonym of
a) Belladona **b)** Hyoscine **c)** Atropine **d)** Datura

Q.100 Opium alkaloids are present as salt of
a) Acetic acid **b)** Meconic acid **c)** Phenoxybenzoic acid **d)** Benzoic acid

Q.101 Idioblast of calcium crystals is a characteristic of
a) Ipecacuana root **b)** Aconite root **c)** Kurchi bark **d)** Cinchona bark

Q102 Glyoxaline nucleus is part of structure
a) Lobeline **b)** Ephedrine **c)** Pilocarpine **d)** Morphine

Q.103 Pheloem fibres are absent in
a) Cinchona bark **b)** Liquorice root **c)** Kurchi **d)** All of these

Q.104 Curcuma longa rhizomes are yellow due to
a) Curcuminoids **b)** Camphene **c)** Starch grain **d)** all

Q.105 One of the following is not mineral drug
a) Calamine **b)** Guggul **c)** Kieselghur **d)** Shilajit

Q.106 Unliginified pith is a microscopic characteristics of
a) E. sinica **b)** E. equisteia **c)** E.distachya **d)** all of these

Q.107 One of pair is incorrect
a) Anisocytic- Cruciferous stomata **b)** Paracytic- Rubiaceous
c) Anomocytic-Ranunculaceous **d)** Dicytic-Irregular cell stomata

Q.108 One of the following is growth inhibitor hormone in plants
a) Auxins **b)** Ethylene **c)** Phosphon **d)** Cytokinins

Q.109 Chromosome are equally divided to opposite poles in
a) Metaphase **b)** Prophase **c)** Telophase **d)** Anaphase

Q.110 Reticulate Parenchyma is absent in
a) Caraway fruits **b)**Dill **c)** Fennel fruits **d)** all of these

Q.111 Glucose has different anomeric structure at
a) C_1 **b)** C_2 **c)** C_3 **d)** C_4

Q.112 Presence of …….. in a molecule precludes chirality
a) Plane of symmetry **b)** Point of Symmetry **c)** Both a & b **d)** none of these

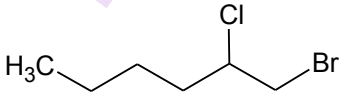
Q.113 Dimethyl ether & ethanol are
a) Conformational **b)** Configurational **c)** Constitutional(Functional) **d)** Stereo

Q.114 Zeigler Natta catalyst consists of
a) Metal halide **b)** Aluminium alkyl **c)** both a & b **d)** none

Q.115 ……..enantiomer of Ibuprofen is active
a) S (+) **b)** S (-) **c)** R (+) **d)** R (-)

Q.116 one of the following is false
a) Configuration D & dextro are different **b)** Sinister means anticlockwise
c) L- compound always rotates plane of polarized light to left **d)** all of these

Q.117 Following molecule has….. stereocentres



a) 1 **b)** 2 **c)** 5 **d)** No

Q.118 The specific rotation for a pure enantiomer is known to be -39^0 g^{-1} mL^{-1} dm-1. A sample containing both enantiomers is found to have an observed rotation of -0.62^0 in 1dm tube at a concentration of 3.5 g/100mL. What is the optical purity of the sample?
a) 73% of the (-) enantiomers and 27% of the (+) enantiomers **b)** 3% of the (-) enantiomers and 97% of the (+) enantiomers **c)** 27% of the (-) enantiomers and 73% of the (+) enantiomers **d)** 97% of the (-) enantiomers and 3% of the (+) enantiomers

Q.119 $(a + b)^2$ =
a) $a^2 + 2ab + b^2$ **b)** $a^2 + a^2b^2 + b^2$ **c)** (a + b) (a – b) **d)** $a^2 - 2ab + b^2$

Q.120 A diene $CH_2=C(CH_3)CH=CH_2$ is
a) Isoprene **b)** terpenes **c)** citranellol d) none of these

Q.121 Epoxides are the compounds containing…….membered ring
a) two **b)** three **c)** four **d)** five

Q.122 numbers of atoms (Population) in ground and exicited state are expressed by
a)Maxwell-Boltzmann equation **b)** Planks constant **c)** Beer's law **d)** Backmann's law

Q.123 MSDS means
a) Material Safety Data Sheet **b)** Material Standard Data Sheet
c) Manual of Standard Drug Substance **d)** None of these

Q.124 ODS in HPLC means
a) Octadecyl Silane **b)** Organic Drug Solution **c)** Octadecyl Silanol **d)** none of these

Q125 Isoelectric point in amino acid is a
a) Temperature **b)** pH **c)** Pressure **d)** Volume

Q.126 Poisoning capacity is related to
a) Conductometry **b)** pH metry **c)** Potentiometry **d)** Voltametry

Q.127 Nitrogen in proteins can be determined by
a) Kjeldahl analysis **b)** Nernest equation **c)** Michaelis equation **d)** none of these

Q.128 Amino acids are
a) Acidic **b)** Basic **c)** Amphoteric **d)** All of these

Q.129 pH transition range of phenolphthalein is
a) pH 7-9 **b)** pH 3-5 **c)** pH 10-13 **d)** pH 6-8

Q.130 Whatman filter paper 42 has pore size of
a) 8 µm **b)** 2.5 µm **c)** 20 µm **d)** 25 µm

Q.131 Accidental error are also called as
a) Indeterminant error **b)** Random error **c)** Both a & b **d)** none

Q.132……..column in GC shows the best efficiency
a) WCOT **b)** SCOT **c)** FSOT **d)** SGOT

Q.133 Glass transition temperature is related to
a) Carbohydrate **b)** Polymer **c)** Lipid **d)** None

Q.134 X-rays are
a) α-particle **b)** β-particle **c)** Electromagnetic radiation **d)** γ-particle

Q.135 Curie point of triglycine sulphate is
a) 47^0 C **b)** 74^0 C **c)** 38^0 C **d)** 83^0 C

Q.136 Shim coils are used in
a) Mass spectrometer **b)** NMR spectrometer **c)** IR spectrometer **d)** UV specrtometer

Q.137 Enantiotopic groups are attached to

a) Prochiral centre **b)** Achiral center **c)** both a & b **d)** none

Q.138 Homotopic ligands are

a) Enantiotopic **b)** Disteriotopic **c)** both a & b **d)** none

Q.139 Starch gives blue color on reaction with iodine. This is due to

a) Amylose **b)** Amylopectin **c)** both a & b **d)** none

Q.140 Prosthetic group of hemoglobin contain iron bound to

a) Pyridine rings **b)** Pyrrole ring **c)** Pyrimidine ring **d)** Tyrosine rings

Q.141…….is used in Sangers method of terminal residue analysis

a) Phenyl isothiocynate **b)** Carboxypeptidase **c)** Ethyl chloroacetate **d)** 2,4-dinitrofluorobenzene

Q.142. ……..received two noble prize

a) Sanger **b)** Watson **c)** Both **d)** None

Q.143 If INDIA is written as 95491, DELHI will be written as

a) 45389 **b)** 45489 **c)** 45498 **d)** 45398

Q.144 A goes 4 km south then 8km west then 6 km north then 8 km east and then 2 km south. How far is A from the starting point

a)2 km **b)** 1 km **c)** 0 km **d)** 3 km

Q.145 An accurate clock shows the as 30 minutes past two. The angle (in degrees) between the minute-hand and the hour-hand is

a) 120^0 **b)** 110^0 **c)** 105^0 **d)** 100^0

Q.146 IF 2x + y = 10 & x + 3y =10, then find x & y

a) 4 & 2 **b)** 2 & 4 **c)** 1 & 3 **d)** 3 & 1

Q.147 Highest numbers of USFDA approved pharmaceutical plants are placed in

a) China **b)** India **c)** Brazil **d)** None

Q.148 Indian Patent Information office is situated at

a) Mumbai **b)** Nagpur **c)** Kanpur **d)** Banglore

Q.149 'In small bridged systems one can not have a double bond at bridgehead position' This is

a) Prelog's rule **b)** Bredt's rule **c)** Markownikoff's rule **d)** none

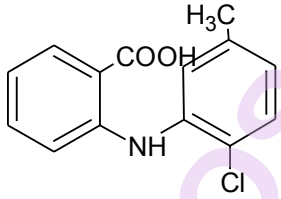
Q.150.Which of the following not a positive symptom associated with Schizophrenia

a) hallucination **b)** anhedonia **c)** Delusion **d)** Disorganised thought

Q.151 Which of the following mood stabilizer would be most appropriate in a patient Liver disease

a) Lithium **b)** Valproic acid **c)** Carbamazepine **d)** none of these

Q.152 One is not correct about following structure



a) It is an acid **b)** It is fenamate **c)** It increases prostaglandin **d)** It is an NSAID

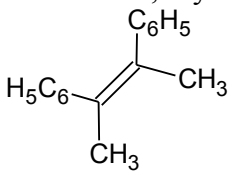
Q.153 Cefepime is ……generation cephalosporin

a) First **b)** Second **c)** Third **d)** Fourth

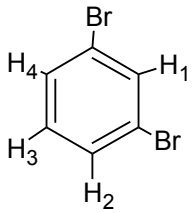
Q.154 when radiation modulated at an acoustical frequency is absorbed by substance. The radiation is converted in to heat. This is called

a) Photoacoustic spectroscopy **b)** Optoacoustic spectroscopy **c)** both **d)** none

Q.155 ……. Is a synthetic benzimidazole derivative anthelmintic
a) Albendazole **b)** Ketoconazole **c)** Fluconazole **d)** all of these
Q.156 …….is a depolarizing neuromuscular blocking agent that causes spastic paralysis of the helminth
a) Mebendazole **b)** Niclosamide **c)** Piperazine **d)** Pyrental
Q.157 Zidovudine is a…….analogue
a) Pyrimidine **b)** Thymidine **c)** Cytosine **d)** Guanine
Q.158 The life time of an excited singlet state is near about
a) 10^{-12} **b)** 10^{-6} **c)** 10^{-4} **d)** 10^{-20}
Q.159 The source of used in spectrofluoremeter is
a) Xenone flash lamp **b)** Xenon arc lamp **c)** Mercury vapour lamp **d)** All of these
Q.160 Precursor of Insulin called proinsulin contain……..amino acid
a) 68 **b)** 86 **c)** 79 **d)** 97
Q.161 All of the following hormonal drug posses a steroidal nucleus except
a) Ethinyl estradiol **b)** Leothyronine **c)** Predenesolone **d)** Norethindrone
Q.162 Detection of Iron content in blood is done by
a) Flame emission spectroscopy **b)** Atomic absorption spectroscopy **c)** both **d)** none
Q.163 In the IR spectrum of organic compounds, the hydrogen stretching region is usually first investigated to determine
a) Aromaticity **b)** Aliphatically **c)** both a & b **d)** none
Q.164 this is cis-2,3-diphenylbutene on reaction catalytic hydrogenation over palladium in acetic acid, it yields predominant…2,3-diphenylbutane



a) meso **b)** d **c)** l **d)** dl
Q.165 Cis 1,2-dimethyl Cyclohexane has ……confirmation
a) e, e **b)** d,e **c)** a, a **d)** a,e
Q.166 The energy level affected in UV-spectroscopy is
a) Electronic **b)** Vibrational **c)** Rotational **d)** all of these
Q.167 The source of radiation used in far IR region is
a) Tungsten filament **b)** High pressure mercury lamp **c)** Globar source **d)** Nernest glower
Q.168 Find the correct statement about Raman spectroscopy
a) It can be used to detect the molecule with IR inactive spectra **b)** It can not be used to study the material in aqueous solution **c)** Raman scattering power is inversely proportional to concentration **d)** all of these
Q.169 $m\lambda = 2d \sin\theta$. This equation is related to
a) X-ray diffraction **b)** ESR **c)** Raman spectroscopy **d)** NMR
Q.170 In below structure H-2 & H-4 are



a) Chemically equivalent **b)** Magnetic equivalent **c)** both a & b **d)** none of these

Q.171 one torr is equal to…..

a) 1333 pascal **b)** 133.3 pascal **c)** 13.33 pascal **d)** 1.333 Pascal

Q.172 In reverse phase chromatography, stationary & mobile phase are….respectively

a) Polar & Nor polar **b)** Non polar & Polar **c)** Polar & Polar **d)** Non polar & non polar

Q.173 In mass spectroscopy, ionization source for the biological compound like hormone, enzyme is

a) Chemical **b)** Electrone impact **c)** FAB **d)** all of these

Q.174 Solvent programming in HPLC is

a) Isocratic elution **b)** Gradient elution **c)** Both a & b **d)** none of thes

Q.175 Pulse free pumps used in HPLC is

a) Syrringe type pump **b)** Pneumatic pump **c)** Both **d)** none of these

Q.176 The electrode used in polarography is

a) Dropping mercury **b)** Static mercury **c)** Both a & b **d)** none of thes

Q.177 Peptidomimetics are molecules with--------

a) No peptide bond **b)** Molecular weight less than 700 **c)** Activity similar to a peptide **d)** all of the above

Q.178 --------- Can be used to catalyzed organic reaction with regioselectivity

a) Cyclodextrine **b)** $AlLiH_4$ **c)** Both a & b **d)**None

Q.179 Invert sugar is a mixture of D(+)glucose &D(-)fructose .this sugar is

a) Dextrorotatory **b)**Levorotatory **c)** Optically inactive **d)** Racemic modification

Q.180 The dextro from of B- methacholine is approximately 500 times more active than The levo enantiomer. The observed difference in most likely due to difference in

a) Dissolution **b)** Solubility **c)** distribution **d)** receptor

Q.181 Levulose is

a) D (+)-glucose **b)** D (-)-fructose **c)** D (-)-glucose **d)** D (+)-fructose

Q.182 Mannitol is

a) Polyhydroxy alcohol **b)** monosaccharide **c)** both a & b **d)** none of these

Q.183 How many grams of menthol should be used to prepare this prescription containing 0.8 % menthol & Alcohol q.s.60.00 ml

a) 0.48 gm **b)** 0.8 gm **c)** 4.8 gm **d)** 1.48 gm

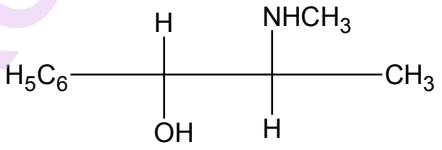
Q.184 "In dehydrohalogenation the more stable the alkene, the faster it is formed' this is

a) Saytzeffs rule **b)** Walden inversion **c)** Tollens reaction **d)** none of these

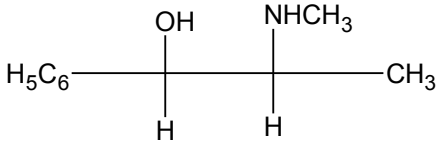
Q.185 Starting product of Sandmeyer reaction is

a) alkynes **b)** diazonium salt **c)** o-toludine **d)** none of these

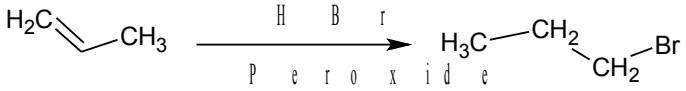
Q.186. these are



&



a) Diastereomers **b)** Enantiomers **c)** Conformational isomers **d)** Bioisomers



This reaction follows

Q187

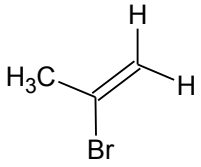
a) Kharasch rule **b)** Markovnikov rule **c)** Bredt rule **d)** Bayer rule

Q.188 Perkin condensation yields

a) Unsaturated acids **b)** Saturated acids **c)** Unsaturated ketones **d)** Saturated ketone

Q.189 ……..is phase transfer catalyst

a) crown ether **b)** $AlCl_3$ **c)** both **d)** none of these

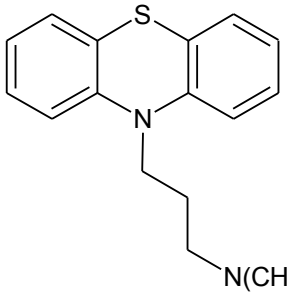


will show NMR sinnals

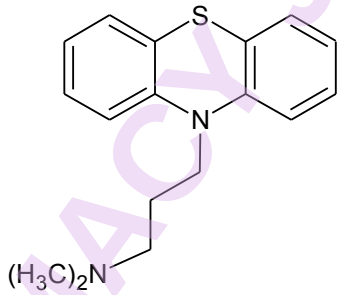
Q.190

a) 2 **b)** 3 **c)** 5 **d)** No

Q.191



&



are

a) Diastereomers **b)** Enantiomers **c)** Conformational isomers **d)** none of these

Q.192 Nitrogen rule is used in the interpretation …….spectra

a) IR **b)** NMR **c)** Mass **d)** ESR

Q.193 CDRI is located at

a) Lucknow **b)** Kassoli **c)** Itanagar **d)** Chandigagh

Q.194 GRAS is related to

a) Safety **b)** Stability **c)** reactivity **d)** none of these

Q.195 Minister of Chemical & Fertilizer Govt of India was in 2004-2009 govt.

a) A. K. Antony **b)** Ramvilas Paswan **c)** Sharad panwar **d)** Lalu Yadav

Q.196 Measles vaccine is given after-------- month of birth

a) 3 **b)** 6 **c)** 9 **d)**12

Q.197 The synonym of abduct

a) Confined **b)** Bound **c)** Released **d)**absolve

Q.198 The antonym of Equivocate

a) Distinguish **b)** Pledge **c)** Yields **d)** Vary

Q199 Coulter counter works on the principle of

a) Electric resistance **b)**light diffraction **c)** light transmission **d))**light absorption

Q.200 Standard deviation is

a) square of variance **b)** square root of variance **c)** square of difference between observation and mean **d)** none of the above.

Answer Key(NIPER JEE-III)

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