| Q.1 The vitamin essential in tissue culture med | ium is | | | |
|--|--|--|--|--|
| (A) Pyridoxine (B) Thiamine (C) Nicotinic acid (D) Inositol | | | | |
| Ans. B | | | | |
| Q.2 Gingkgo biloba is used for its | | | | |
| (A) Expectorant activity(C) PAF antagonistic activity | (B) Lipid lowering activity(D)Antidepressant activity | | | |
| Ans. C | | | | |
| Q.3 The amount of barbaloin present in <i>Aloe ve</i> | ne in | | | |
| (A) <1% (B) 3.5-4% Ans. B | (c) 1-1.5% (D) 2-2.5% | | | |
| Q.4 Sildenafil is used for treatment of one of th | e following disorders : | | | |
| (A) Systolic hypertension | (B) Unstable angina | | | |
| (C) Pulmonary hypertension Ans. C | (D) Hypertension due to eclampsia | | | |
| 0.5 Cardiac glycopides have the following confi | guration in the aglycone part of the steroid nucleus : | | | |
| Q.5 Cardiac glycosides have the following confi (A) 5a, 14a - 5a, 14β- | (C) 5β , $14a$ - (D) 5β , 14β - | | | |
| Ans. D | | | | |
| Q.6 Quassia wood is adulterated with | | | | |
| Q.6 Quassia wood is adulterated with(A) Brucea antidysentrica | (B) Cassia angustifoila | | | |
| (i) Draced antegranical(ii) Cinnamomum zeylanicumAns. B | (D) Cephaelis ipecacuanaha | | | |
| Q.7 Eugenol is present in | | | | |
| (A) Fennel (B) Tulsi | (C) Cardamom (D) Coriander | | | |
| Ans. B | | | | |
| Q.8 Which one of the following drugs is prescribed for the treatment of Philadelphia chromosome positive patients with Chronic myeloid Leukemia? | | | | |
| (A) Pentostatin | (B) Methotrexate | | | |
| (C) Imatinib Ans. C | (D) L-Asparaginase | | | |
| Q.9 Which of the following monoclonal antibodies is prescribed for patients with non-Hodgkin's Lymphoma? | | | | |
| (A) Infliximab (B) Abciximab (C) Gemtuzumab (D) Rituximab Ans. | | | | |
| Q.10 Identify the drug which is NOT used in t | he treatment of malaria caused by Plasmodium falciparum : | | | |
| (A.) Artemisinin (B) Primaquine | (C) Quinine (D) Mefloquine | | | |
| Ans. B | | | | |
| Q.ll Which one of the following drugs does NOT a | ct through G-Protein coupled receptors? | | | |
| (A) Epinephrine (B) Insulin Ans. B | (C) Dopamine (D) TSH | | | |
| Q.12 Which one of the following drugs is most ef to the foetus? | fective in preventing transmission of HIV virus from the mother | | | |
| (A) Lamivudine (B) Zidovudine Ans. B | (C) Indinavir (D) Ribavirin | | | |
| Q.13 Improvement of memory in Alzheimer's disease is brought about by drugs which increase transmission in | | | | |
| (A) cholinergic receptors | (B) dopaminergic receptors | | | |
| (C) GABAergic receptors Ans. A | (D) adrenergic receptors | | | |
| Q.14 Which of the following non-opioid analgesic (A) Piroxicam (B) Celecoxib (C)Nabumetone Ans. C | s is a prodrug? (D) Ketorolac | | | |

Q.15 Which one of the following drugs is NOT a typical anti-psychotic agent? (A) Chlorpromazine (B) Haloperidol (C) Risperidone (D) Flupentixol Ans. C Q.16 Which one of the followings is a plasminogen activator? (B) Streptokinase (A) Tranexamic acid (C) Aminocaproic acid (D) None of the above Ans. B Q.17 Myasthenia gravis is diagnosed with improved neuromuscular function by using (A) Donepezil (C) Atropine (D) Pancuronium (B) Edrophonium Ans B Q.18 Which one of the following drugs specifically inhibits calcineurin in the activated T lymphocytes? (A) Daclizumab (B) Prednisone (C) Sirolimus (D) Tacrolimus Ans. D Q.19 The chemical behaviour of morphine alkaloid is (A) acidic (B)Basic (C) neutral (D) amphoteric Ans. B Q.20 At physiological pH the following compound would be MOSTLY in the (B) unionized form (A) cationic form (C)zwitterionic form (D) anionic form Ans. Q.21 Which one of the followings is used as a mood stabilizer for bipolar disorder and also in certain epileptic convulsions? (A) Phenytoin (B) Lithium (C) Sodium valproate (D) Fluoxetine Ans. B Q.22 An isosteric replacement for carboxylic acid group is (A) pyrrole (B) isoxazole (C) phenol (D) tetrazole Ans.-D Q.23 The given antibiotic is an example of ansamycins : (A) Roxythromycin (B) Adriamycin (C) Aureomycin (D) Rifamycin Ans. D Q.24 For glyburide, all of the following metabolic reactions are logical EXCEPT (A) O-demethylation (B) aromatic oxidation (C) benzylic hydroxylation (D) amide hydrolysis Ans. B Q.25 The effects observed following systemic administration of levodopa in the treatment of Parkinsonism have been attributed to its catabolism to dopamine. Carbidopa, can markedly increase the proportion of levodopa that crosses the blood-brain barrier by (A) increasing penetration of levodopa through BBB by complexation with it (B) decreasing peripheral metabolism of levodopa

- (C) decreasing metabolism of levodopa in the CNS
- (D) decreasing clearance of levodopa from the CNS

Ans. B

Q.26 Ethambutol molecule has

- (A) two chiral centers and 3 stereoisomers
- (B) two chiral centers and 4 stereoisomers
- (C) two chiral centers and 2 stereoisomers

(D) one chiral center and 2 stereoisomers

Ans. B

Q.27 A compound will be sensitive towards IR radiation only when one of the following properties undergo transition on (A) Polarizability (B) Dielectric constant (C) Dipole moment (D) Refractivity Ans. C Q.28 X-ray crystallographic analysis of an optically active compound determines its (A) Optical rotatory dispersive power (B) Absolute configuration (C) Relative configuration (D) Optical purity Ans. Q.29 Which one of the following statements is WRONG? (A) A singlet or triplet state may result when one of the electrons from the HOMO is excited to higher energy levels (B) In an excited singlet state, the spin of the electron in the higher energy orbital is paired with the electron in the ground state orbital (C) Triplet excited state is more stable than the singlet excited state (D) When the electron from the singlet excited state returns to ground state, the molecule always shows fluorescence phenomenon Ans. C Q.30 Aminotransferases usually require the following for their activity : (A) Niacinamide (B)Vitamin B12 (C) Pyridoxal phosphate (D) Thiamine Ans. C Q.31 Purity of water can be assessed by determining one of its following properties instrumentally : (A) pH (B) Refractivity (C) Viscosity (D) Conductivity Ans. D Q.32 Which one of the following statements is WRONG? (A) Carbon NMR is less sensitive than proton NMR (B) ¹²C nucleus is not magnetically active (C) Both ¹³C and *H have same spin quantum numbers The gyromagnetic ratio of *H is lesser than that of $^1\,\mathrm{C}$ (D) Ans.D Q.33 In the TCA cycle, at which of the following enzyme-catalyzed steps, incorporation of elements of water into an intermediate of the cycle takes place : (A) Citrate synthase (B) Aconitase (C) Maleate dehydrogenase (D) Succinyl Co-A synthase Ans. C Q.34 Humectants added in cosmetic preparations generally act by (A) hydrogen bond formation (B) covalent bond formation (C) complex formation (D) the action of London forces Ans. A Q.35 In the mixing of thymol and menthol the following type of incompatibility occurs : (A) Chemical incompatibility (B) Therapeutic incompatibility (C) Physical incompatibility (D) Tolerance incompatibility Ans. C Q.36 Bloom strength is used to check the quality of (A) Lactose (B) Ampoules (C) Hardness of tablets (D)Gelatin Ans. D Q.37 The characteristic of non-linear pharmacokinetics include : (A) Area under the curve is proportional to the dose (B) Elimination half-life remains constant. (C) Area under the curve is not proportional to the dose (D) Amount of drug excreted through remains constant Ans. C Q.38 $\,$ In the Drugs and Cosmetics Act and Rules, the Schedule relating to GMP is (A) Schedule M (B) Schedule C (C) Schedule Y (D) Schedule H Ans. A

| | Thioglycolic acid-like compounds h lations : | nave application | s in following type of cos | metic | |
|---|--|------------------|---|-----------------------------------|--|
| | Depilatory preparations anishing creams A | | Epilatory preparations Skin tan preparations | | |
| Q.40 | Which one of the following is a floo | culating agent | for a negatively charged | drug? | |
| | lluminium chloride 'ragacanth | | Bentonite Sodium biphosphate | | |
| Q.41 | The healing agent used in hand cr | eams is | | | |
| | oft paraffin ees wax A | . , | urea stearyl alcohol | | |
| Q.42 | Measurement of inulin renal clear | ance is a measu | re for | | |
| (A) Effective renal blood flow (B) Renal drug excretion rate (C) Active renal secretion (D) Glomerular filtration rate | | | | | |
| | Highly branched three dimensiona a central core are known as | u macromolecul | es with controlled struct | ures with all bonds originating | |
| (A) c Ans. | yclodextrins (B) dextrans (C)de | ndrimers (D |) liposomes | | |
| - | Which one of the following is the o products? | commonly used l | bulking agent in the form | nulation of freeze dried low dose | |
| (A) S (C) S | odium chloride Starch | | Mannitol HPMC | | |
| Ans. | | | | | |
| Q.45 | The applicability of Noyes-Whitne | y equation is to | describe | | |
| | Yirst order kinetics Mixed order kinetics D | | Zero order kinetics Dissolution rate | | |
| | Which filler can NOT be used for oration of the tablets? | the preparation | of tablets for amine cont | caining basic drugs to avoid | |
| (A) I (C) S Ans. I | | | Microcrystalline cellulos Lactose | se | |
| 0.15 | m i 1.11. 61 | | 1 | | |
| Q.47 | The ability of human eye using ille .4 micron (B) 25 micron | | - | 10 micron | |
| Ans. | (b) 25 meron | (0) | So interon (D) | 10 micron | |
| Q.48 | What quantities of 95 % v/v and 4 | 5 % v/v alcohols | are to be mixed to make | 800 mL of 65 % v/v alcohol? | |
| (A) 480 mL of 95 % and 320 mL of 45 % alcohol 4 | | | | | |
| (C) 4 | 320 mL of 95 % and 480 mL of 45 40 mL of 95 % and 360 mL of 45 % 60 mL of 95 % and 440 mL of 45 % a B | alcohol | | | |
| Q.49 | The role of borax in cold creams is | | | | |
| (A) | anti-microbial agent | | | | |
| | to provide fine particles to polish sk <i>in-situ</i> emulsifier | tin | | | |
| | antioxidant | | | | |

Ans. A

Q.50 Choose the right combination:

- (A) Quinine', antimalarial, isoquinoline alkaloid
- (B) Reserpine, -antihypertensive, indole alkaloid
- (C) $\$ -Quantitative microscopy, stomatal number, myrrh
- (D) Palmitic acid, salicylic acid , fatty acids

Ans. B

- Q.51 Triterpenoids are active constituents of
- (A) Jaborandi (B) Rhubarb
- (C) Stramonium (D) Brahmi

Ans.D

- Q.52 Alkaloids are NOT precipitated by
- (A) Mayer's reagent (B) Dragendroff Reagent
- (C) Picric acid (D) Millon's reagent

Ans. D

Q.53 Anisocytic stomata are present in (A) Senna (B)Digitalis(C) Belladonna (D) Coca Ans. C

Q.54 Bacopa monnieri plant belongs to the family

(A)Scrophulariacea (B) Leguminosae (C) Polygalaceae (D) Rubiaceae Ans. A

Q.55 Tropane alkaloids are NOT present in

- $(A) \quad Datura\ stramonium$
- (B) Erythroxylum coca
- (C) Duboisia myoporoides
- (D) Lobelia inflata Ans. D

Q.56 Guggul lipids are obtained from

- (A) Commiphora molmol
- (B) Boswellia serrata
- (C) Commiphora wightii
- (D) Commiphora abyssinica Ans. C

Q.57 An example of N-glycoside is

(A) Adenosine

(B) Sinigrin

- (C) Rhein-8-glucoside
- (D) Aloin

Ans. A

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Q.58 One mg of Lycopodium spores used in quantitative microscopy contains an average of (A) 94,000 spores (B) 92,000 spores (C) 90,000 spores (D) 91,000 spores Ans. A
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Q.59 Select the correc: combination of drugs for the treatment of patients suffering from Hepatitis C :

(B) Interferon with Zidovudine

- (A) Interferon with Ribavirin
- (C) Interferon with Stavudine (D) Interferon with Lamivudine Ans. B
- Q.60 Aliskiren acts by
- (A) inhibiting the conversion of Angiotensin I to II
- (B) inhibiting the release of rennin
- (C) inhibiting the binding of Angiotensin II to the receptor
- (D) inhibiting the action of aldosterone
- Ans. B

Pharmacophore Solutions

| Q.61 Digitalis toxicity is enhanced by co-adminis | tration of | | | | | |
|---|---|--|--|--|--|--|
| (A) Potassium B) Quinidine Ans. B & C | (C) Diuretics (D) Antacids | | | | | |
| Q.62 The rate limiting step in cholesterol biosynthesis is one of the followings : | | | | | | |
| (A) LDL-receptor concentration(c) Mevalonic acid formation Ans. C | (B) VLDL secretion(D) Co-enzyme A formation | | | | | |
| Q.63 Which one of the following drugs is withdr | Q.63 Which one of the following drugs is withdrawn from the market due to torsade de pointes? | | | | | |
| (A) Chlorpromazine | (B) Astemizole | | | | | |
| (C) Haloperidol Ans. B | (D) Domperidone | | | | | |
| Q.64 Ganciclovir is mainly used for the treatmen | t of infection caused by | | | | | |
| (A) Cytomegalovirus(C) Herpes zoster virusAns. A & C | (B) Candida albicans(D) Hepatitis B virus | | | | | |
| Q.65 Identify the one rational combination which | has clinical benefit : | | | | | |
| (A) Norfloxacin - Metronidazole | (B) Alprazolam - Paracetamol | | | | | |
| (C) Cisapride – Omeprazole Ans. D | (D)Amoxycillin - Clavulanic acid | | | | | |
| Ans. D Q.66 Stevens Johnson sjmdrome is the most common adverse effect associated with one of the following category of drugs : | | | | | | |
| (A) Sulphonamides | (B) Macrolides | | | | | |
| (C) Penicillins | (D) Tetracyclines | | | | | |
| Ans. A | | | | | | |
| Q.67 Amitryptyline is synthesized from the following starting material : | | | | | | |
| (A) Phthalic anhydride | (B) Terephthalic acid | | | | | |
| (C) Phthalamic acid Ans. B | (D) Phthalimide | | | | | |
| Q.68 The common structural feature amongst th succinimides and hydantoins is | he three categories of anticonvulsant drugs barbiturates, | | | | | |
| (A) ureide | (B) imidazolidinone | | | | | |
| (C) dihydropyrimidine Ans. A | (D) tetrahydropyrimidine | | | | | |
| Q.69 Nicotinic action of acetylcholine is blocked by the drug | | | | | | |
| (A) Atropine(C) NeostigmineAns. D | (B) Carvedilol(D) d-Tubocurarine | | | | | |
| Q.70 Chemical nomenclature of procaine is | | | | | | |
| (A) 2-Diethylaminoethyl 4-aminobenzoate | | | | | | |
| (B) N,N-Diethyl 4-aminobenzoate | | | | | | |
| (C) 4-Aminobenzamidoethyl amine | | | | | | |
| (D) 4-Amino-2-diethylaminoethyl benzoate Ans. A & D | | | | | | |
| Q.71 Barbiturates with substitution at the follow activity : | ing position possess acceptable hypnotic | | | | | |
| (A) 1,3-Disubstitution | (B) 5,5-Disubstitution | | | | | |
| (C) 1,5-Disubstitution Ans. B | (D) 3,3-Disubstitution | | | | | |
| Q.72 Selective serotonin reuptake inhibitor is | | | | | | |
| (A) Imipramine (B) Iproniazide Ans. C | (C) Fluoxetin (D)Naphazoline | | | | | |
| Q.73 Proton pump inhibitors like omeprazole and system : | l lansoprazole contain the following ring | | | | | |
| (A) Pyrimidine (B)Benzimidazole (C) Benzothiazole (D) Oxindole Ans. B | | | | | | |
| Q.74 A metabolite obtained from Aspergillus terreus that can bind very tightly to HMG CoA reductase enzyme is | | | | | | |
| (A) Fluvastatin (B) Cerivastatin Ans. C | (C) Lovastatin (D) Somatostatin | | | | | |

| Q.75 Cyclophosphamide as anticancer agent a | rts as | | | | |
|---|--|--|--|--|--|
| (A) alkylating agent before metabolism(C) phosphorylating agent after metabolismAns. B | (B)alkylating agent after metabolism(D) DNA intercalating agent | | | | |
| Q.76 Artemisinin contains the following grou | p in its structure : | | | | |
| (A) an endoperoxide(C) an epoxideAns. A | (B) an exoperoxide(D) an acid hydrazide | | | | |
| Q.77 Indicate the HPLC detector that is most | sensitive to change in temperature : | | | | |
| (A) PDA detector(C) Electrochemical detectorAns. B | (B) Refractive Index detector(D) Fluorescence detector | | | | |
| Q.78 One of the following statements is NO | ' true : | | | | |
| (A) Accuracy expresses the correctness of measurement (B) Precision represents reproducibility of measurement (C) High degree of precision implies high degree of accuracy also (D) High degree of accuracy implies high degree of precesion also Ans. C | | | | | |
| Q.79 In thiazides following substituent is esse | ential for diuretic activity : | | | | |
| (A) Chloro group at position 6(C) Sulphamoyl group at position 7Ans. C | (B) Methyl group at position 2(D) Hydrophobic group at position 3 | | | | |
| Q.80 Streptomycin can NOT be given orally | | | | | |
| (A) it gets degraded in the GIT(C) it causes metallic taste in the mouth Ans. D | (B) it causes severe diarrhoea(D) it is not absorbed from the GIT | | | | |
| Q.81 In organic molecules, fluorescence seldo than | m results from absorption of UV radiation of wavelengths lower | | | | |
| (A) 350 nm (B) 200 nm Ans. A | (C) 300 nm (D) 250 nm | | | | |
| Q.82 Glass transition temperature is detected through | | | | | |
| (A) X-Ray diffractometery(C) Differential scanning calorimetery Ans. C | (B) Solution calorimetery(D) Thermogravimetric analysis | | | | |
| Q.83 In Gas-Liquid Chromatography, some of the samples need to be derivatized in order to increase their | | | | | |
| (A) volatility | (B) solubility | | | | |
| (C)thermal conductivity Ans. D | (D) polarizability | | | | |
| Q.84 Oxidative phosphorylation involves (A) Electron transport system (B) Substrate level phosphorylation (C) Reaction catalyzed by succinic thiokinase in TCA cycle (D) None of the above Ans. A | | | | | |
| Q.85 Coulter counter is used in determination of | f | | | | |
| (A) particle surface area(C) particle volumeAns. D | (B) particle size(D)all of A, B, C | | | | |
| Q.86 Drugs following one compartment open model pharmacokinetics eliminate | | | | | |
| (A) bi-exponentially(C) non-exponentiallyAns. D | (B) tri-exponentially(D) mono-exponentially | | | | |
| | drug products under cold temperature is given as : 3) temperature below 2°C 1) temperature between 2°C and S°C | | | | |

Pharmacophore Solutions Q.88 Many xenobiotics are oxidized by cytochrome P450 in order to (A) increase their biological activity increase their disposition in lipophilic compartments of the body (B) (C) increase their aqueous solubility (D) all of the above Ans. D Q.89 The following protein/polypeptide has a quaternary structure : (A) cc-Chymotrypsin (B) Hemoglobin (C) Insulin (D) Myoglobin Ans.B Q.90 Drugs in suspensions and semi-solid formulations always degrade by (B)second order kinetics (A) first order kinetics (C) zero order kinetics (D) non-linear kinetics Ans. Q.91 In nail polish, following polymer is used as a film-former : (A) Nitrocellulose (B) Polylactic acid (C) Hydroxypropyl methylcellulose (D) Cellulose acetate phthalate Ans. A Q.92 Rabies vaccine (living) is prepared using (A) Sheep blood (B) Mice lymph (C) Horse plasma (D) Fertile eggs Ans. Q.93 A drug (200 mg dose) administered in tablet form and as intravenous injection (50 mg dose) showed AUG of 100 and 200 microgram hr/mL, respectively. The absolute availability of the drug through oral administration is : (A) 125% (B) 250 % (C) 12.5% (D) 1.25% Ans.C Q.94 Geriatric population should be included in the following Phase of clinical trials (A) Phase I (B) Phase II (C) Phase III (D) Phase IV Ans. C Q.95 Class 100 area is referred to (A) Manufacturing area (B) Aseptic area (C) Clean room (D) Ware house Ans. B Q.96 How many mL of a 1:500 w/v stock solution should be used to make 5 liters of 1:2000 w/v solution? (A) 750 mL (B) 1000 mL (c) 1250 mL (D) 1500 mL Ans. C Q.97 The Volume of distribution of a drug administered at a dose of 300 mg and exhibiting 30 microgram/mL instantaneous concentration in plasma shall be (A)10 L (B) 100 L (C) 1.0 L (D) 0.10 L Ans. A Q.98 It is required to maintain a therapeutic concentration of 10 microgram/mL for 12 hours of a drug having half life of 1.386 hr and Vd of 5 L. The dose required in a sustained release product will be (A) 600 mg (B) 300 mg 30 mg (D) 60 mg Ans. Q.99 Which one of the following is NOT an ex-officio member of Pharmacy Council of India? (A) The Director General of Health Services The Director of Central Drugs Laboratory (B) (C) The Drugs Controller General of India (D) The Director of Pharmacopoeia Laboratory Ans. D Q.100 In which of the following techniques the sample is kept below triple point? (A) Lyophilization (B) Spray drying

(C) Spray congealing (D) Centrifugation

Ans. A

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