

1. Polymorphism refers to the compounds having:
 - (a) Different stereochemistry
 - (b) Different crystal structure
 - (c) Different composition
 - (d) All of the above

2. The rate of sedimentation of particle is directly proportional to:
 - (a) Particle size
 - (b) Particle colour
 - (c) Particle shape
 - (d) None of the above

3. High angle of repose of the granules indicates:
 - (a) Smooth surface of the granules
 - (b) Rough surface of the granules
 - (c) High bulk density of the granules
 - (d) High porosity of the granules

4. Surfactants having an HLB value of more than 16 are useful as:
 - (a) Solubilising agent
 - (b) Detergents
 - (c) Antifoaming agents
 - (d) w/o emulgents

5. Addition of alcohol to a hydrophilic colloid lead to:
 - (a) Precipitation
 - (b) Crystallisation
 - (c) Solubilisation
 - (d) Stabilisation

6. Flocculated suspensions have sedimentation rate than deflocculated suspensions
 - (a) Higher
 - (b) Equal
 - (c) Lower
 - (d) Zero

7. Non-Newtonian flow can be described with the help of:
 - (a) True viscosity
 - (b) Apparent viscosity
 - (c) Kinematic viscosity
 - (d) Shear viscosity

8. The stability constant is increased in complexation if the ligand has:
 - (a) High solubility
 - (b) Bulky group
 - (c) High electron density on the donor
 - (d) Low ionization potential

9. The area under the curve (AUC) represents the
- (a) $t_{1/2}$ of the drug
 - (b) V_d of the drug
 - (c) Amount of drug absorbed
 - (d) None of the above
10. Cab-o-Sil is used as
- (a) Antiadherent
 - (b) Lubricant
 - (c) Disintegrant
 - (d) Glidant
11. Which of the following tests for parenteral solutions ensures that it is free from all microbes?
- (a) Pyrogen test
 - (b) Clarity test
 - (c) Leakage test
 - (d) Sterility test
12. The latin word 'ad libitum' means
- (a) As much as you please
 - (b) To be added
 - (c) When required
 - (d) Upto
13. Saponification test is generally used for the identification of the following substances
- (a) Fixed oils and fats
 - (b) Gums and mucilages
 - (c) Alkaloids
 - (d) Glycosides
14. The plant hormone which shows specific effect on the cell division is
- (a) Auxins
 - (b) Abscisic acid
 - (c) Cytokinins
 - (d) Ethylene
15. Which of the following alkaloids are found as salt of Meconic acid
- (a) Ergot
 - (b) Rauwolfia
 - (c) Tropane
 - (d) Opium
16. Tropane alkaloids are biosynthesized from
- (a) Ornithine
 - (b) Tryptophan
 - (c) Tyrosine
 - (d) Phenylalanine
17. Example of hydrolysable tannin is
- (a) Catechin
 - (b) Ketosterol
 - (c) Chebulic acid
 - (d) None of the above

18. The adulterant of honey contains furfural is detected by
- Fehling test
 - Fieches lest
 - By the use of Sanger reagent
 - Osazone test
19. Which of the following drugs contain bufadienolide glycosides?
- Scilla bulbos
 - Convallaria
 - Digitalis
 - Oleander
20. Choose the plant species which are the steroid sources for the Industry
- Liquorice species
 - Dioscorea species
 - Hydrastis canadensis
 - Ipomea purge
21. Which of the following is an aromatic heterocyclic compound?
- Pyrrole
 - Epoxyethane
 - Pyrrolidine
 - Dioxane
22. Which of the following tetrahedral molecules shows optical activity?
- CH_3
 - CH_3Cl
 - CHF_2Cl
 - CHFClBr
23. Carbamazepine is a tricyclic anticonvulsant drug, it is a
- Benzodiazepine derivative
 - Azocine derivative
 - Xanthene derivative
 - Dibenzoazepine derivative
24. Chlorpromazine is
- [3-(2-Chlorophenothiazin-10-yl) propyl] diethyl amine
 - [2-(3-Chlorophenothiazin-10-yl) propyl] dimethyl amine
 - [2-(3-Chlorophenothiazin-10-yl) propyl] diethyl amine
 - [3-(2-Chlorophenothiazin-10-yl) propyl] dimethyl amine
25. Atropine is a racemic mixture of equal parts of
- + and - Hyöscine
 - + and - Hyoscyamine
 - Tropine and tropic acid
 - + and - Scopine
26. Pheniramine is prepared by condensing
- 2-Amino pyridine and dimethylamino ethyl chloride
 - 2-Benzyl pyridine and diethylamino methyl chloride
 - 2-Amino pyridine and diethylamino methyl chloride
 - 2-Benzyl pyridine and dimethylamino ethyl chloride

27. Replacement of O by isosters like S in 2nd position of barbiturates
- (a) Increases lipophilicity, long-acting drug
 - (b) Decreases lipophilicity, long-acting drug
 - (c) Decreases lipophilicity, short-acting drug
 - (d) Increases lipophilicity, short-acting drug
28. All of the following hormonal drugs possess steroidal nucleus except
- (a) Ethinyl estradiol
 - (b) Prednisolone
 - (c) Fluoxymesterone
 - (d) Liothyronine
29. The commonly used detector in the UV spectrophotometer is:
- (a) Thermocouple
 - (b) Photomultiplier tube
 - (c) Bolometer
 - (d) Littrow prisms
30. The commonly used detecting reagent for amino acids is:
- (a) CCl₄
 - (b) Chloroform
 - (c) Ninhydrin solution
 - (d) Both (a) and (b)
31. Which of the following is classified as belonging to the tyrosine kinase family of receptors?
- (a) GABA-A receptor
 - (b) Alpha-adrenergic receptor
 - (c) Insulin receptor
 - (d) Nicotinic receptor
32. Drug of choice in status epilepticus in children is
- (a) Diazepam
 - (b) Phenobarbitone
 - (c) Carbamazepine
 - (d) Phenytoin
33. The principal action of noscapine is
- (a) Analgesic
 - (b) Antiemetic
 - (c) Antitussive
 - (d) Antihistaminic
34. Choose the "Cholinesterase reactivator"
- (a) Atropine
 - (b) Pralidoxime
 - (c) Pirenzepine
 - (d) Ipratropium
35. Fluoxetine is FDA- approved to treat:
- (a) Schizophrenia
 - (b) Anxiety
 - (c) Mania
 - (d) Depression

36. Indicate the narcotic analgesic, which is a natural agonist:
- (a) Meperidine
 - (b) Fentanyl
 - (c) Morphine
 - (d) Naloxone
37. This drug is an alpha-1 adrenergic receptor antagonist
- (a) Prazosin
 - (b) Clonidine
 - (c) Enalapril
 - (d) Nifedipine
38. Which of the following drugs is an antiplatelet drug:
- (a) Dicumarol
 - (b) Ticlopidine
 - (c) Heparin
 - (d) Warfarin
39. Drugs most commonly used in chronic heart failure are:
- (a) Cardiac glycosides
 - (b) Diuretics
 - (c) Angiotensin-converting enzyme inhibitors
 - (d) All the above
40. This drug is a Class IA antiarrhythmic drug:
- (a) Sotalol
 - (b) Propranolol
 - (c) Verapamil
 - (d) Quinidine

Answer key PHARMACY

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|-------|-------|
| 1. b | 32. a |
| 2. a | 33. c |
| 3. b | 34. b |
| 4. a | 35. d |
| 5. a | 36. c |
| 6. a | 37. a |
| 7. b | 38. b |
| 8. a | 39. d |
| 9. c | 40. d |
| 10. d | |
| 11. d | |
| 12. a | |
| 13. a | |
| 14. c | |
| 15. d | |
| 16. a | |
| 17. c | |
| 18. a | |
| 19. a | |
| 20. b | |
| 21. a | |
| 22. d | |
| 23. b | |
| 24. d | |
| 25. b | |
| 26. b | |
| 27. d | |
| 28. d | |
| 29. b | |
| 30. c | |
| 31. c | |

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