



**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
**(Deemed to be University under section 3 of the UGC Act 1956)**

**Pharmacy**

**Instructions / Note:**

1. Answer all the questions. Each question carries one mark.
2. No negative marks for wrong answers.
3. Read each question carefully and answer in the OMR sheet provided for each question with only blue/ black pen to fill the circles in the OMR Sheet.
4. Return the question paper along with the OMR sheet.

Time: 90 Minutes

Venue: \_\_\_\_\_.

[35X1=35]

**Part -B**

1. Receptor mediated action are not seen in
  - A. Alcohol
  - B. Antipsychotic
  - C. Antacids
  - D. Benzodiazepines
2. "Gray baby syndrome" is associated with which of the following drugs
  - A. Fusidic acid
  - B. Teicoplanin
  - C. Chloramphenicol
  - D. Baitracin
3. Phentolamine is competitive antagonism of
  - A. Acetylcholine
  - B. Isoprenaline
  - C. Noradrenaline
  - D. Atropine
4. Conjugation of drugs include the following EXCEPT
  - A. Glucronidation
  - B. Sulfate formation
  - C. Methylation
  - D. Hydrolysis



**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
**(Deemed to be University under section 3 of the UGC Act 1956)**

5. Which of the penicillin is effective both orally and parenterally
  - A. Amoxicillin
  - B. Cloxacillin
  - C. Ampicillin
  - D. Ofloxacin
  
6. Which of the following is not a type of chromatographic column packing material
  - A. Silica gel
  - B. C18
  - C. Polyethylene glycol [PEG]
  - D. Cellulose
  
7. Which of the following is not a type of calibration curve
  - A. Linear calibration curve
  - B. Quadratic calibration curve
  - C. Exponential calibration curve
  - D. Logarithmic calibration curve
  
8. Which of the following is not a type of syringe filter
  - A. Nylon syringe filter
  - B. PTFE syringe filter
  - C. PVDF syringe filter
  - D. Glass syringe filter
  
9. Which of the following is not a type of dissolution apparatus
  - A. USP apparatus 1
  - B. USP apparatus 2
  - C. USP apparatus 3
  - D. USP apparatus 4
  
10. Which of the following is not a type of UV-Visible spectroscopy technique
  - A. Absorbance spectroscopy
  - B. Fluorescence spectroscopy
  - C. Circular dichroism spectroscopy
  - D. Atomic absorption spectroscopy
  
11. Which of the following is not a type of drug degradation
  - A. Hydrolysis
  - B. Oxidation
  - C. Reduction
  - D. Polymerization



## VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

(Deemed to be University under section 3 of the UGC Act 1956)

12. What is a solid lipid nanoparticle
  - A. A spherical solid particle prepared from physiological lipid, dispersed in water or in aqueous surfactant solution
  - B. A spherical solid particle prepared from synthetic lipid, dispersed in water or in aqueous surfactant solution
  - C. A spherical solid particle prepared from physiological lipid, dispersed in oil or in oily surfactant solution
  - D. A spherical solid particle prepared from synthetic lipid, dispersed in oil or in oily surfactant solution
  
13. What is a dendrimer?
  - A. A branched polymer with a highly branched, tree-like structure
  - B. A linear polymer with a highly branched, tree-like structure
  - C. A branched polymer with a highly linear, tree-like structure
  - D. A linear polymer with a highly linear, tree-like structure
  
14. Ketoconazole liposomes are given by
  - A. Lungs
  - B. Oral
  - C. Transdermal
  - D. Intravenous
  
15. Liposomes are spherical structures, usually between in diameter
  - A. 80nm-100nm
  - B. 60nm-100nm
  - C. 55nm-1000nm
  - D. 15nm-1000nm
  
16. What is the process of using a drug to target a specific receptor called
  - A. Receptor therapy
  - B. Antibody therapy
  - C. Biologic therapy
  - D. Gene therapy
  
17. What is the process of using CRISPER -Cas9 to modify a gene called
  - A. Gene therapy
  - B. Genetic engineering
  - C. Gene expression
  - D. Gene editing
  
18. The class of antibodies, which can cross placenta is
  - A. Ig D
  - B. Ig A
  - C. Ig G
  - D. Ig M



## VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

(Deemed to be University under section 3 of the UGC Act 1956)

19. Home blood glucose sensor works on which principle?
  - A. Electrochemical
  - B. Electro-physiological
  - C. Chemical
  - D. Mechanical
20. What is the technology used for the production of monoclonal antibodies?
  - A. Hybridoma technology
  - B. Polymerase chain reaction [PCR]
  - C. Western blotting
  - D. ELISA
21. Which of the following is not a type of isomerism?
  - A. Stereoisomerism
  - B. Geometrical isomerism
  - C. Structural isomerism
  - D. Molecular isomerism
22. The antifungal drug, fluconazole belong to the class
  - A. Pyridine
  - B. Azoles
  - C. Pyrimidines
  - D. Acridines
23. Ciprofloxacin is a
  - A. Quinoline
  - B. Azole Quinoline
  - C. Isoquinoline drug
  - D. Quinclidine drug
24. Chemical name for plaster of paris
  - A. Magnesium sulphate
  - B. Calcium carbonate
  - C. Magnesium carbonate
  - D. Calcium sulphate
25. Ringer's injection contain
  - A. 10% fructose & 0.9% sodium chloride
  - B. 15% mannitol & 0.45% sodium chloride
  - C. 0.9% sodium chloride & 0.245% lactic acid
  - D. 0.86% sodium chloride, 0.03% potassium chloride and 0.033% calcium chloride
26. Which of the following is not a type of secondary metabolite?
  - A. Alkaloids
  - B. Flavonoids
  - C. Terpenoids
  - D. Proteins



## VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

(Deemed to be University under section 3 of the UGC Act 1956)

27. Which of the following is not a type of plant cell?
- A. Parenchyma
  - B. Collenchyma
  - C. Sclerenchyma
  - D. Epithelial
28. Ashwagandha is common name for
- A. *Withania somniferum*
  - B. *Holarrhena antidysentrica*
  - C. *Bacopa moneira*
  - D. *Centella asiatica*
29. Cinchona belongs to the family
- A. Apocynaceae
  - B. Rutaceae
  - C. Rubiaceae
  - D. Lauraceae
30. Peppermint oil is synonym for
- A. Mentha oil
  - B. Chenopodium oil
  - C. Cardamom oil
  - D. Lemon oil
31. \_\_\_\_\_ of clinical trial involves first time human trial in a small number of patients.
- A. Phase I
  - B. Phase II
  - C. Phase III
  - D. Phase IV
32. Pharmaceutical equivalent that produce the same effects in patients
- A. Therapeutic window
  - B. Minimum effective concentration (MEC)
  - C. Minimum toxic concentration (MTC)
  - D. Therapeutic equivalent
33. Idiosyncrasy is\_\_\_\_\_.
- A. Type A ADRs
  - B. Type B ADRs
  - C. Type C ADRs
  - D. Type D ADRs
34. Which of the following is Type B ADRS?
- A. Hypoglycaemia caused by Insulin
  - B. Anaemia in patient with G6PD deficiency caused by Primaquine
  - C. Dryness of mouth caused by Atropine
  - D. Hyperglycaemia caused by thiazide diuretics



**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
**(Deemed to be University under section 3 of the UGC Act 1956)**

35. Science of collecting, monitoring, researching, assessing and evaluating information from healthcare providers and patients on the adverse effects of medications is known as

- A. Pharmacovigilance.
- B. Clinical Trails.
- C. Observational study.
- D. Qualitative study

