

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
(Deemed to be University)

**DIPLOMA IN PHARMACY EXAMINATION – October 2019**  
**Second Year**

**PHARMACEUTICAL CHEMISTRY – II**

Time: Three hours

Maximum: 80 marks

Answer **Any EIGHT** questions only

All questions carry equal marks

Draw Neat, Labelled Diagram wherever necessary.

1. What are Sulphonamides? Classify them with examples and write the chemical structure, nomenclature and uses of sulpha guanidine and sulfacetamide.
2. Draw the chemical structure and mention the uses of the following compounds
  - a) Diamino Diphenyl sulfone
  - b) Para Amino salicylate
  - c) Diethyl Carbamazine Citrate
  - d) Isoniazid.
3. Write a detailed note on : a) Antidepressant b) Diagnostic agents
4. Define and classify Diuretics. Write the chemistry, properties and uses of Furosemide and Hydrochlorothiazide.
5. What are Antibiotics? Classify them with examples. Discuss the chemistry of Penicillin and Ampicillin.
6. Write the chemistry and uses of the following compounds
  - a) Chlorpromazine
  - b) Phenobarbitone
  - c) Diphenhydramine
  - d) Phenylbutazone
7. What are adrenergic drugs and cholinergic drugs? Describe the chemistry of Adrenaline and Neostigmine.
8. Write short notes on : a) Local anaesthetics b) Hypoglycaemic agents
9. Write the chemical structure and medicinal uses of
  - a) Thyroxine
  - b) Menadione
  - c) Piperazine
  - d) Halothane
10. a) Define and classify Antineoplastic agents.  
b) Discuss the chemistry of Cardiac glycosides.