

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**B.PHARM. DEGREE EXAMINATION – JANUARY 2020  
Fourth Semester**

**MEDICINAL CHEMISTRY - I**

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. Explain the importance of Phase I and II reactions in drug metabolism with suitable examples.
2. Classify sympathomimetic agents with suitable examples. Discuss the biosynthesis of catecholamine. Write the synthesis of tolazoline.
3. Classify antipsychotic drugs with suitable example. Discuss the SAR of phenothiazines. Write the synthesis and mechanism of action of chlorpromazine.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Clinical phases in drug discovery and development process.
5. Biosynthesis of acetyl chloride.
6. Synthesis and uses of propranolol.
7. Synthesis and uses of Salbutamol.
8. SAR of benzodiazepines.
9. Synthesis of Dicyclomine hydrochloride.
10. Classify anti-inflammatory drug with suitable example and write the synthesis of Methadone.
11. SAR of Beta blockers.
12. Synthesis and uses of halothane.

III. Write short notes on : (10 x 2 = 20)

13. Write the structure of the following : Methohexital sodium, carbachol.
14. Write the structure and uses of Ethosuximide.
15. Write the structure and uses of Neostigmine.
16. Mechanism of anti-convulsant drugs.
17. Mechanism of anti-inflammatory drugs.
18. Write the structure of Hydantoin and oxazolidinedione with examples.
19. Write the structure and uses of carbamazepine.
20. Write the structure and uses of any two narcotic analgesic drugs.
21. Give examples for fenamates with structure.
22. Write the structure and uses of any two flurobutyrophenones.