

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

B.PHARM. DEGREE EXAMINATION – February 2020
Third Year

MEDICINAL CHEMISTRY - I

Time : Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x 15 = 30)

1. a) Describe the structure activity relationships of morphine analogues. (7)
- b) Write the synthesis and mechanism of actions of halothane and methoxyflurane. (8)
2. Explain the phase- II metabolic pathway with suitable examples. (15)
3. a) Write a detailed note on antipsychotics drugs. (8)
- b) What are sympathomimetic agents? Give the synthetic route for salbutamol. (7)

II. Write short essays on any **SIX** questions: (6 x 5 = 30)

4. Write a note on cholinergic receptors.
5. Give the mechanism of action and synthesis of carbamazepine.
6. What are the factors affecting drug metabolism?
7. Write a note on ganglion blocking agents.
8. Give the synthetic route for Nalorphine.
9. Write a note on H₂ receptor antagonists.
10. Explain the SAR of Barbiturates.
11. Write the synthesis and uses of Lignocaine.

III. Write short notes on any **FIVE** questions: (5 x 2 = 10)

12. What are eicosanoids?
13. List the drugs used as diuretics.
14. Write the chemical structure and uses of pilocarpine.
15. Define anti- inflammatory agents and give examples.
16. What is prodrug? Mention their uses.
17. Give the chemical structure and medicinal uses of Noscapine.
