

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

**B.PHARM. DEGREE EXAMINATION – JULY 2019
Fifth Semester**

MEDICINAL CHEMISTRY II

Time : Three hours

Maximum: 75 marks

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

1. Classify local anaesthetics with examples. Outline the synthesis of Benzocaine and Procaine.
2. Discuss the distribution of histamine in the human body. Outline any three synthesis of anti histamine drugs.
3. Briefly write the mechanism of action of antimetabolites in antineoplastic agents. Outline the synthesis of any two anti metabolites.

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

4. Write a note on alkylating agents.
5. Give an account on proton pump inhibitor.
6. Give examples of Thiazide class of diuretics and outline the synthesis of any one drug.
7. Briefly discuss stereochemistry of steroids.
8. Write a note on Insulin and its preparation.
9. Write a note on calcium channel blockers.
10. Classify antihypertensive agents with examples.
11. Outline the synthesis of furosemide and acetazolamide.
12. Write the structures of four anti arrhythmic drugs.

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

13. Osmotic diuretics.
14. Antihyperlipidemic agents
15. Give examples of sulfonamide ureas.
16. Corticosteroids.
17. Draw the structure and use of mannitol.
18. Outline the synthesis of Warfarin.
19. Give examples of oral contraceptives.
20. Draw the structure and mention the use of Famotidine.
21. Give examples of natural antineoplastic agents.
22. Draw the structure and mention the use of citrizine.