

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

B.PHARM. DEGREE EXAMINATION – August 2018
Third Year

MEDICINAL CHEMISTRY – I

Time : Three hours

Maximum: 70 marks

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

1. a) Classify antihistaminic agents with suitable examples.
b) Outline the synthesis of diphenhydramine and promethazine
2. a) Enumerate in detail about the SAR of phenothiazines.
b) Outline the synthesis of chlorpromazine hydrochloride and prochlorperazine maleate.
3. a) What are diuretics? classify them with example. Write the mechanism of action for each class.
b) Outline the synthesis of furosemide

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

4. Classify general anaesthetics with example
5. Short note on applications of prodrugs
6. Outline the synthesis of imipramine hydrochloride and phenytoin
7. Write the classification and mechanism of action of important sympathomimetic agents
8. Write short notes on atropine sulphate
9. Classify local anesthetics with examples. Give the synthesis of benzocaine
10. Explain in detail about the SAR of morphine.
11. What are prostaglandins? Outline the cyclooxygenase pathway.

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

12. Give any two structures of antitussives
13. Classification of anti convulsants.
14. Write the structure and use of nifedipine and metoprolol
15. Structure of any two NSAIDs.
16. Mechanism of action of Acetazolamide
17. Note on conjugation reaction.