

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

B.PHARM. DEGREE EXAMINATION – July 2019
Third Year

MEDICINAL CHEMISTRY - I

Time : Three hours

Maximum: 70 marks

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

1. a) Explain the concept of Prodrugs. What are the applications of prodrugs? (8)
- b) Describe any two phase I metabolic pathways with an example for each. (7)
2. What are diuretics? Classify them with suitable examples. Write the synthetic route and mechanism of actions of Hydrochlorothiazide and Furosemide. (15)
3. a) Explain the structure activity relationship of Antihistamines. (7)
- b) What are Eicosanoid? Briefly about the biosynthesis of Eicosanoid. (8)

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

4. Write a note on Sedatives and Hypnotics.
5. Describe the mechanism of action and synthesis of Phenytoin.
6. Write the structure and physiochemical properties of Adrenergic Neurotransmitters.
7. Write a note on cholinergic blocking agents.
8. Give the synthetic route for chlorpromazine hydrochloride.
9. What are H1 receptors antagonists?
10. Write the synthesis of cyclizine from piperazine.
11. Write the synthetic route for Halothane.

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

12. What are the local anaesthetics?
13. List the drugs use as NSAID.
14. Write the chemical structure and uses of Nikethamide.
15. Define antitussives and give examples.
16. Differentiate between the Morphine and Codeine with respect to structure and uses.
17. What are Narcotic antagonists? Give examples.