

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

**Pharm.D DEGREE EXAMINATION - July 2019
Third Year**

MEDICINAL CHEMISTRY

Time: Three hours

Maximum: 70 marks

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

1. Enumerate the life cycle of malaria, explain the classification, mechanism of action and synthesis of Chloroquine and Pyrimethamine.
2. Define and classify sulphonamides and detail the mechanism of action.
3. Define, classify and enumerate the mechanism of action and synthesis of cephalosporin drugs.

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

4. Classify and write the mechanism of action for diuretics.
5. Write the role of coagulant drug in the coagulation process.
6. Classify the macrolide antibiotics, with its clinical importance.
7. Write note on multi drug resistance tuberculosis.
8. Explain the synthesis of any two vasodilators.
9. Write note on antineoplastics agents.
10. Classify the steroidal hormones.
11. Write the applications of computer aided drug design in drug discovery.

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

12. Synthesis of quinine.
13. Classification of oral hypoglycemic agents.
14. Synthesis of diethylcarbamazine.
15. Classify the tuberculosis drugs.
16. Write note on antithyroid agents.
17. Classify the antifungal agents.
