

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

Pharm.D DEGREE EXAMINATION - August 2018
Third Year

MEDICINAL CHEMISTRY

Time: Three hours

Maximum: 70 marks

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

1. Define antibiotics. Classify the antibiotics with example Discuss the chemistry mechanism of action and degradation and uses of penicillin.
2. What are sulfonamides? Discuss the mechanism of action, SAR and uses of sulfa drugs outline the synthesis of any two sulfa drugs.
3. Discuss the life cycle of malaria. Classify the antimalarial drugs. Discuss the chemistry, mechanism of action of antimalarial drugs. Write the synthesis of chloroquine and primaquine.

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

4. Combinatorial chemistry
5. Quinine
6. Beta blockers
7. Modern drug design
8. Antimetabolites
9. Ligand based drug design
10. SAR of steroidal hormones
11. First line anti TB drugs and synthesis of INH

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

12. Docking
13. Synthesis of chlorthiazide
14. Synthesis of DEC
15. Benzalkonium chloride
16. Prodrug
17. Ethambutol