

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

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

**MEDICINAL CHEMISTRY III**

Time : Three hours

Maximum: 75 marks

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

1. Write in detail about the chemical degradation and classification of penicillins with suitable examples.
2. Discuss in detail about the etiology of Malaria. Classify anti-malarial drugs with suitable example. Write the synthesis of chloroquine.
3. Discuss about various approaches used in drug design and discuss about the electronic parameters used in QSAR.

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

4. Synthesis and uses of chloramphenicol.
5. Classify Anti –TB drugs with example and write the synthesis of INH.
6. SAR of quinolones.
7. Synthesis and use of DEC.
8. SAR of sulfonamides.
9. Docking techniques.
10. Write any one synthesis and uses of anti-protozoal drugs.
11. Write the synthesis and uses any one sulfa drug.
12. Hansch analysis.

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

13. Structure and uses of Tetracycline.
14. Chemical tagging used in combinatorial chemistry.
15. Mechanism of quinolones.
16. Structure and mechanism of action of Miconazole.
17. Write the structure and uses any two antiviral agents.
18. Different types of enzyme inhibitors.
19. Structure and use of Dapsone.
20. Application of prodrugs design.
21. Name the parameters used in QSAR.
22. Application of Free Wilson analysis.