Sl.No: M21946 **Course Code: BP601T**

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

B.PHARM. DEGREE EXAMINATION – JANUARY 2020
Sixth Semester

MEDICINAL CHEMISTRY - III

Time : Three hours Maximum: 75 marks

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

1. Classify cephalosporin with suitable examples. Discuss about the degradation of penicillin.
2. Classify anti-viral drugs with examples. Write the synthesis, mechanism and uses of acyclovir.
3. Discuss the concept and application of combinatorial chemistry. Discuss about the solid phase synthesis.

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

4. Macrolide antibiotics.
5. Competitive inhibitors.
6. SAR of quinolines.
7. Write the synthesis and uses of PAS.
8. Docking techniques.
9. Write the synthesis and uses of any one anti-fungal drugs.
10. Concept of combinatorial chemistry.
11. Write the structure, mechanism of action and uses of DEC.
12. Types of Enzyme inhibitors.

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

13. Classification of anti-malarial drugs with examples.
14. Mechanism of anti-protozoal drugs.
15. Concept of prodrug design.
16. Mechanism of sulfa drugs.
17. Write the structure and uses of Gatifloxacin, oxytetracycline.
18. Solution phase synthesis in combinatorial chemistry.
19. Structure and uses of Dapsone.
20. Application of Hansch analysis.
21. Radio frequency tagging used in combinatorial chemistry.
22. Applications of combinatorial chemistry.

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