Sl.No:M21215 **Course Code: BP601T**

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

B.PHARM. DEGREE EXAMINATION – October 2021
Sixth Semester

MEDICINAL CHEMISTRY - III

Time : Three hours Maximum: 75 marks

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

1. Write the SAR, mechanism of action, synthesis and uses of Chloramphenicol.
2. Classify antiviral drugs with examples. Write the mechanism of action and synthesis of Acyclovir.
3. Classify Sulphonamides with suitable examples. Write the mechanism of action and SAR of sulphonamides. Present the synthesis of Sulphacetamide.

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

4. Degradation of Penicllins.
5. Enzyme inhibitors.
6. Mechanism of action and synthesis of Chloroquine.
7. Objectives of designing a prodrug and its applications.
8. Synthesis and mechanism of action of INH.
9. Draw the structure and uses of the following drugs:

a)Ethambutol b) Norfloxacin c)Metronidazole d) Dapsone e)Trimethaprim

10. Classification of Cepholosporins.
11. Different types of docking studies.
12. Physicochemical parameters of QSAR.

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

13. Draw the structures of Sulphamethoxazole and Para amino salicylic acid.
14. What are aminoglycosides? Give any two examples.
15. Give any example each for the following classes of drugs
    i) Macrolides ii) Aminoglycosides iii) Biguanides
    iv) 8 – Amino quinolines
16. Write the structure and uses of Chloroquine.
17. List out the antitubercular antibiotics.
18. What is HAART? Give the list of drugs used in the treatment.
19. Anti – amoebic drugs with examples.
20. Sold phase synthesis.
21. What are the major types of drug design?
22. Important tools in combinatorial chemistry.

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