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Code: 13R00704

B.Pharm IV Year I Semester (R13) Regular & Supplementary Examinations November 2017 **MEDICINAL CHEMISTRY – III**

Time: 3 hours

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PART – A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) Write SAR of H₂ receptor antagonist.
 - (b) Write synthesis of Diphenhydramine.
 - (c) Classify beta lactamase inhibitors.
 - (d) Give SAR of H₂ Antagonists.
 - (e) Give MOA of non-nucleoside reverse transcriptase.
 - (f) Write a short note on ligand based drug design.
 - (g) Write a short note on QSAR.
 - (h) Write a short note on anticancer antibiotics.
 - (i) Outline synthesis of promethazine.
 - (j) Write a short note on quinolone antibiotics.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 Give the chemical structures of Phenindamine, Tripelennamine, Fexofenadine, Cyclizine and Esmoprazole.

OR OR Describe the chemistry, pharmacological actions, SAR and metabolism of Meclizine.

UNIT – II

4 Outline the synthesis of Ofloxacin, Nitrofurantoin, Sulfisoxazole and Griseofulvin.

OR

5 Classify urinary antiseptics on basis of chemical structures. Give MOA, QSAR of antifungal agents with suitable examples.

UNIT – III

- 6 Give the chemical structures of Primaquine, Proguanil, Mebendazole, Dapsone and Niclosamide. **OR**
- 7 Describe the chemistry, pharmacological actions, SAR and metabolism of Isoniazid.

UNIT – IV

8 Outline synthesis of Acyclovir, Zidovudine, Amantadine and Chlorambucil.

OR

9 Classify antineoplastic agents on the basis of chemical structures. Give SAR for alkylating agents with suitable examples.

UNIT – V

10 Write a note on combinatorial chemistry and explain pharmacophore modeling studies.

OR

11 Write a note on structure based drug design. Explain stereochemistry in drug design with suitable examples.

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Max. Marks: 70