

Code: 13R00704

B.Pharm IV Year I Semester (R13) Regular Examinations November 2016

**MEDICINAL CHEMISTRY - III**

Time: 3 hours

Max. Marks: 70

**PART - A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Give mechanism of action of H<sub>2</sub>-antagonist.
  - (b) Draw the structure of misoprostol and loratadine.
  - (c) Give two examples of urinary antiseptics.
  - (d) Draw the structure of any fluoroquinolones.
  - (e) Give ant four SAR for amino acridines as antimalarials.
  - (f) Give MOA for ethambutol.
  - (g) Name any four alkylating anticancer agents.
  - (h) Give any two examples of reverse transcriptase inhibitors.
  - (i) Define ligand and lead molecule.
  - (j) Outline synthesis of albendazole.

**PART - B**

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

**UNIT - I**

- 2 Describe in detail mechanism of action, classification and SAR of H<sub>1</sub> antagonist.

**OR**

- 3 Write a note on H<sub>3</sub> agonists and antagonist.

**UNIT - II**

- 4 Give a brief account of MOA, classification and SAR for sulphonamides.

**OR**

- 5 Classify antifungals. Comment on azole antifungals.

**UNIT - III**

- 6 Give a detailed account of antiamoebics.

**OR**

- 7 Discuss antimalarials with reference to classification, MOA and SAR.

**UNIT - IV**

- 8 Classify anticancer agents. Describe antimetabolites in detail.

**OR**

- 9 Give classification of antivirals. Give SAR of NNRTIs.

**UNIT - V**

- 10 Discuss SAR & QSAR in drug design.

**OR**

- 11 Write a note on:
- (a) Structure based drug design.
  - (b) Stereochemistry in drug design.

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