

B.Pharm III Year II Semester (R13) Supplementary Examinations May/June 2018

MEDICINAL CHEMISTRY – II

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the structures and uses of Lisinopril and Valsartan.
 - Write the synthesis of Acetazolamide.
 - Define vasodilators and anti-arrhythmic drugs.
 - Write the classification of anti-hyperlipidemic agents.
 - Define anti coagulants with examples.
 - Write the structures and uses of Levothyroxine and Methimazole.
 - Write the structures and uses of any two opioid antagonists.
 - Write the SAR of Salicylates as NSAIDs.
 - Write the structures and uses of any two tetracyclines.
 - Classify antibiotics with each two examples.

PART – B

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

UNIT – I

- 2 Define and classify diuretics with examples and structures. Write the synthesis of Furosemide. Write the SAR of Thiazides.

OR

- 3 Write about the synthesis of Captopril and Losartan.

UNIT – II

- 4 Write about the synthesis of Amlodipine and Procainamide.

OR

- 5 Define and classify antihypertensive agents with examples and structures. Write the Mechanism and SAR of beta blockers.

UNIT – III

- 6 Write about the synthesis of warfarin and metformin.

OR

- 7 Define and classify synthetic hypoglycemic agents with examples and structures. Write the synthesis and mechanism of Tolbutamide.

UNIT – IV

- 8 Define and classify narcotic analgesics with examples and structures. Write the synthesis and mechanism of Tramadol.

OR

- 9 Define and classify NSAIDs with examples and structures. Write the synthesis of Diclofenac and Paracetamol.

UNIT – V

- 10 Explain briefly about beta lactam antibiotics with examples and structures. Write the synthesis and SAR of any two beta lactam antibiotics.

OR

- 11 Write the mechanism of actions and SAR of Aminoglycosides and Tetracyclines.