

B.Pharm III Year II Semester (R13) Supplementary Examinations December 2016

MEDICINAL CHEMISTRY – II

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write SAR of phenoxyacetic acid derivatives.
 - Write synthesis of clopidogrel.
 - Give chemical classification and uses of methimazole.
 - Write M.O.A of naltrexone and celecoxib.
 - Write therapeutic uses of sulfinpyrazone and sumatriptan.
 - Write mechanism of action of ethacrynic acid.
 - Give chemical classification and uses of nifedipine.
 - Write synthesis and structure of Repaglinide.
 - Write SAR of methylnaltrexone.
 - Write therapeutic uses of sildenafil citrate.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 Discuss the SAR, MOA and uses of diuretics and outline the synthesis of loop diuretics.

OR

- 3 Give two examples with structures and therapeutic uses of carbonic anhydrase inhibitors.

UNIT – II

- 4 Explain about the various chemical classifications and synthesis, uses of Ion channel blockers.

OR

- 5 Give classification of antihypertensive agents with examples and add a note on sodium nitroprusside.

UNIT – III

- 6 Write synthesis and uses of the following:

- Warfarin sodium.
- Tolbutamide.

OR

- 7 Discuss the general structural features of drugs associated with anti-coagulants and outline the uses and synthesis of Metformin.

UNIT – IV

- 8 Write detailed notes on:

- Opioids.
- Antimigraine drugs.

OR

- 9 Write mechanism of action and synthesis of the following:

- Ibuprofen.
- Allopurinol.

UNIT – V

- 10 Give classification with examples, SAR and uses of β –Lactam antibiotics.

OR

- 11 Write briefly about:

- Macrolides and Lincomycins.
- Outline the uses and synthesis of β –Lactam antibiotics.
