

T.Y.B.PHARM. SEMESTER-V (2011 Course) : WINTER - 2018

SUBJECT: MEDICINAL CHEMISTRY – I

Day : Tuesday
Date : 13/11/2018

W-2018-4127

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 80

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** Give structure, IUPAC and two uses of **Any FIVE** drugs. (10)
- i) Parathion.
 - ii) Tropicamide.
 - iii) Dicyclomine.
 - iv) Pyridostigmine.
 - v) Bethanechol.
 - vi) Demacarium bromide.
- Q.2** a) Discuss classification based of sulphonamides used as diuretics. Write SAR & MOA of carbonic anhydrase inhibitors. (10)
b) Write a note chemistry of thiazides. (05)
- Q.3** a) Explain MOA, chemistry & SAR of cholinomimetics with examples. (10)
b) Write significance of physicochemical properties on drug action. (05)
- Q.4** Write Short Notes on **Any Three** of the following. (15)
- a) Ganglionic Stimulants.
 - b) Fergusson's Principle.
 - c) Papaverine alkaloids.
 - d) Outline scheme of synthesis of Dicyclomine HCl & Ethacranic acid.

SECTION – II

- Q.5** Give structure, IUPAC and two uses of **Any FIVE** drugs. (10)
- i) Verapamil.
 - ii) Atenelol.
 - iii) Guanabenz
 - iv) Isoproterenol.
 - v) Salbutamol.
 - vi) Atropine.
- Q.6** a) Classify sympathomimetics write chemistry with examples. Write about indirect acting sympathomimetics. (10)
b) Give a detail account on cardiotonics. (05)
- Q.7** a) Discuss chemistry, SAR & MOA of beta blockers with examples. (10)
b) Write chemistry & classification of antihypertensives. (05)
- Q.8** Write Short Notes on **Any Three** of the following. (15)
- a) Calcium channel blockers.
 - b) Adrenergic agonists.
 - c) Antianginals.
 - d) Outline scheme of synthesis of Gallamine & Mecamylamine.