

**T.Y.B.PHARM. SEMESTER-V (CBCS - 2015 Course) : WINTER -  
2018**

**SUBJECT: MEDICINAL CHEMISTRY-I**

Day: Tuesday  
Date: 13/11/2018

Time: 10.00 A.M. TO 01.00 P.M.  
Max. Marks: 60

**W-2018-4085**

**N.B:**

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

**SECTION -I**

- Q.1** Attempt **ANY FIVE** of the following: **(10)**
- a) Draw Structure of Ethacranic acid & Malathion.
  - b) Write about generation of nerve impulse.
  - c) Differentiate between structurally specific & non specific drugs.
  - d) Justify 'Stedman Hypothesis' with examples.
  - e) Write about bioisoterism with examples of classical & non classical bioisoters.
  - f) Outline route of synthesis of Carbachol.
- Q.2** a) Classify sulphonamides used as diuretics. Write SAR of Thiazide. **(07)**  
b) Write an exhaustive note on potassium sparing diuretics. **(03)**
- Q.3** a) Describe chemistry, pharmacological action, SAR & metabolism of Acetylcholine & its analog. **(07)**  
b) State significance of physicochemical properties with respect to biological action. **(03)**
- Q.4** Write short notes on **ANY TWO** of the following: **(10)**
- a) Solanaceous alkaloids
  - b) Reversible & Irreversible Ach. Enzymes.
  - c) Outline scheme of synthesis of Bethenechol & Chlorthiazide.

**SECTION -II**

- Q.5** Attempt **ANY FIVE** of the following: **(10)**
- a) Draw Structure mention category with IUPAC of Amlodipine & Atenelol.
  - b) Classify antiarrhythmic drugs.
  - c) State types of nicotinic receptors with its function.
  - d) Classify neuromuscular blockers.
  - e) Write about combination antihypertensive therapy.
  - f) Outline scheme of synthesis of Terbutaline.
- Q.6** a) What are ganglionic agents? Classify & write its chemistry & SAR. **(07)**  
b) Write about antianginals. **(03)**
- Q.7** a) Classify antihypertensives. Write chemistry SAR with examples. **(07)**  
b) Write a note on cardiac glycosides. **(03)**
- Q.8** Write short notes on **ANY TWO** of the following: **(10)**
- a) Direct acting sympathomimetics.
  - b) Calcium channel blockers.
  - c) Outline scheme of synthesis of Methyl Dopa & Amyl Nitrite.

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