

S.Y.B.PHARM. SEMESTER-IV (CBCS - 2015 COURSE) :

SUMMER - 2018

SUBJECT : PHARMACOLOGY – I

Day : **Monday**
Date : **07/05/2018**

Time : **02.00 PM TO 05.00 PM**
Max. Marks : 60

S-2018-3926

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 the **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** Attempt **ANY FIVE** of the following: [10]
- a) Define Synergism. Give examples.
 - b) Define pharmacodynamics.
 - c) Define Therapeutic index.
 - d) Define clinical trials. Name its phases.
 - e) Define Bioavailability.
 - f) Define drug dependence.
- Q.2** Write in detail general mechanism of action of drugs. Give suitable examples. [10]
- Q.3**
- a) Explain the role of drug distribution in drug action. [07]
 - b) Explain factors modifying drug effect. [03]
- Q.4** Write short notes on **ANY TWO** of the following: [10]
- a) Nature of drugs
 - b) Tolerance
 - c) Plasma protein binding

SECTION – II

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) Write the therapeutic classification of sympathomimetics.
 - b) Discuss the metabolic pathway of adrenaline.
 - c) Name the subtypes of nicotinic receptor and their tissue distribution.
 - d) Explain the terms neuroeffector junction and synaptic cleft.
 - e) Name the drugs used for the treatment of myasthenia gravis.
 - f) Write the co-transmitters of autonomic nervous system.
- Q.6** Explain the pharmacological actions, adverse drug reactions and therapeutic uses of atropine. [10]
- Q.7**
- a) Classify α - blockers. Write pharmacological account of ergot alkaloids. [07]
 - b) Discuss the biosynthesis pathway of acetylcholine. [03]
- Q.8** Write short notes on **ANY TWO** of the following: [10]
- a) Anti-cholinesterase poisoning
 - b) Mechanism of action of catecholamines
 - c) Neuromuscular junction blockers

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