

SUBJECT: PHARMACOLOGY – I

Day : Tuesday

W-2018-4084

Time : 02.00 PM TO 05.00 PM

Date : 27/11/2018

Max. Marks : 60

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**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.
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**SECTION – I**

- Q.1** Attempt **ANY FIVE** of the following: [10]
- a) Discuss scope of pharmacology.
  - b) Define Bioavailability and Bioequivalence.
  - c) Define drug dependence.
  - d) Explain the term Therapeutic index.
  - e) Define Toxicity and give types of toxicity.
  - f) Explain First Pass Metabolism.
- Q.2** Describe Absorption. Explain mechanism and factors affecting absorption of drugs. [10]
- Q.3** a) Enlist the routes of drug administration. Explain advantages and disadvantages of parenteral route of drug administration. [07]
- b) Explain Renal route of excretion of drugs. [03]
- Q.4** Write short notes on **ANY TWO** of the following: [10]
- a) Blood brain barriers
  - b) Adverse drug reaction (ADR)
  - c) Drug interaction.

**SECTION – II**

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) Enlist the steps involved in the synthesis of catecholamines?
  - b) Explain neurohumoral transmission.
  - c) Classify alpha adrenergic blocking agents.
  - d) Name any four drugs used in treatment of glaucoma.
  - e) Explain mechanism of action of adrenaline.
  - f) Classify muscarinic receptor agonist.
- Q.6** Classify anti-cholinesterases. Explain mechanism of action, side effects and therapeutic uses of reversible anti-cholinesterases. [10]
- Q.7** a) Write the pharmacological account of parasympatholytic agents. [07]
- b) Write clinical application of adrenergic drugs. [03]
- Q.8** Write short notes on **ANY TWO** of the following: [10]
- a) Neuromuscular blocking agents
  - b) Biphasic response of adrenaline
  - c) Beta blockers.