

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

WINTER - 2017

SUBJECT : PHARMACOLOGY – I

Day : **Tuesday**

Time : **02.00 PM TO 05.00 PM**

Date : **21/11/2017**

W-2017-3799

Max. Marks : **60**

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 clearance and half-life.
 - b) Define Therapeutic index.
 - c) Define Pharmacokinetics.
 - d) Define Bioequivalence.
 - e) Define Toxicity.
 - f) Define volume of distribution.
- Q.2** Explain in detail mechanism and factors affecting absorption of drugs. [10]
- Q.3** a) What do you understand by the term ‘Drug abuse’? Name the common drugs which can be abused and how the abuse of drugs can be controlled? [07]
- b) Explain the advantages and disadvantages of parenteral route of drug administration. [03]
- Q.4** Write short notes on **ANY TWO** of the following: [10]
- a) Excretion of drugs
 - b) Dose response relationship
 - c) Food drug interaction

SECTION – II

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) Classify anti-cholinesterases.
 - b) Discuss in detail uptake of catecholamines in nerve terminals.
 - c) What is myasthenia gravis?
 - d) Name the subtypes of muscarinic receptor and their tissue distribution.
 - e) Write the co-transmitters of autonomic nervous system.
 - f) Name the indirect and mixed acting sympathomimetics.
- Q.6** Explain the pharmacological actions, adverse drug reactions and therapeutic uses of adrenaline. [10]
- Q.7** a) Explain the pharmacological actions, adverse drug reactions and therapeutic uses of d-tubocurarine. [07]
- b) Write the therapeutic uses of atropine. [03]
- Q.8** Write short notes on **ANY TWO** of the following: [10]
- a) Dale’s vasomotor reversal
 - b) Glaucoma
 - c) Symptoms, causes and treatment of cholinesterase poisoning

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