

S.Y.B.PHARM. SEMESTER-IV (2011 COURSE) : SUMMER - 2018

SUBJECT: PHARMACOLOGY -I

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

Time: **02.00 PM TO 05.00 PM**
Max. Marks: **80**

S-2018-3962

N.B.:

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.** Out of the remaining attempt any **TWO** question from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.
- 4) Draw neat labelled diagrams **WHEREVER** necessary.

SECTION-I

- Q.1** Define with examples (any **FIVE**) (10)
- a) Therapeutic index
 - b) Efficacy
 - c) Noncompetitive antagonism
 - d) Margin of safety
 - e) Idiosyncrasy
 - f) Cumulative effect
- Q.2** a) Discuss in detail the process of new drug development with special emphasis on preclinical and clinical studies. (08)
- b) Enlist the different routes of drug administration. Discuss the advantages and disadvantages of transmucosal routes. (07)
- Q.3** a) Discuss in detail manifestation of adverse drug reaction. (08)
- b) Define drug interaction. Discuss pharmacodynamics drug interactions with examples. (07)
- Q.4** Write short notes on any **THREE** of the following: (15)
- a) Dose response relationship
 - b) Excretion of drugs
 - c) Drug tolerance
 - d) Receptor regulation

SECTION-II

- Q.5** Solve any **FIVE** of the following: (10)
- a) Explain the term cycloplegia.
 - b) Classify cholinergic drugs.
 - c) Write the tissue distribution of nicotinic receptors.
 - d) Classify the drug acting on autonomic ganglia.
 - e) Explain the term neurotransmitter and synaptic cleft
 - g) Write the tissue distribution of α -receptors.
- Q.6** a) Classify the anti-cholinergic. Discuss pharmacological action, adverse drug reactions and therapeutic uses of atropine. (08)
- b) Discuss the pharmacological action adverse drug reactions and therapeutic uses of Ephedrine. (07)
- Q.7** a) Write the classification, pharmacological action and adverse effects of adrenergic drugs. (08)
- b) Write the clinical applications and adverse effects of beta- blockers. (07)
- Q.8** Write a note on any **THREE** of the following: (15)
- a) Neuromuscular blockers
 - b) Different parts and function of ANS
 - c) Muscarinic receptors
 - d) Belladonna poisoning

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