

S.Y.B.PHARM. SEMESTER-IV (CBCS - 2015 Course) : SUMMER - 2019

SUBJECT: PHARMACOLOGY-I

Day : Thursday
Date : 09/05/2019

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

S-2019-4393

N. B. :

- 1) Q. no. 1 and Q. no. 5 are **COMPULSORY** and out of the remaining attempt any **TWO** questions from each sections.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to each section must be written in **SEPERATE** answer books.

SECTION-I

- Q.1** Attempt **ANY FIVE** of the following: (10)
- a) Explain Non-proprietary drug.
 - b) Define Half-life. Give its significance.
 - c) Explain the term Synergism with example.
 - d) Define placebo and Discuss its significance.
 - e) Explain the term tolerance with example.
 - f) Discuss about Drug-abuse.
- Q.2** Enlist the routes of drug administration. Explain advantages and disadvantages of oral route. Add a note on first pass effect. (10)
- Q.3**
- a) Explain the mechanism of drug action. Discuss the receptor theory of drug action. (07)
 - b) Enlist the sources of drugs. Add a note on nature of active ingredients. (03)
- Q.4** Write short notes on **ANY TWO** of the following: (10)
- a) Dose-response relationship
 - b) Placental barrier and its importance
 - c) Adverse drug reaction.

SECTION-II

- Q.5** Solve **ANY FIVE** of the following: (10)
- a) Differentiate between α_1 and α_2 adrenergic receptors?
 - b) Classify ganglionic blockers.
 - c) Give therapeutic use of nicotinic receptor blockers.
 - d) Explain the term myasthenia gravis.
 - e) Discuss the mechanism of action of adrenaline.
 - f) Write the co-transmitters of autonomic nervous system?
- Q.6** Discuss the pharmacological actions, side effects, contraindications and therapeutic uses of acetylcholine. (10)
- Q.7**
- a) Classify beta blocker drugs with examples. Discuss pharmacological actions, side effects and therapeutic uses of β -blockers. (07)
 - b) Explain in detail Synthesis, storage, metabolism of noradrenaline. (03)
- Q.8** Write notes on **ANY TWO** of the following: (10)
- a) Muscarinic receptor blockers.
 - b) Dale's vasomotor reversal.
 - c) Organophosphate poisoning.

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