Paper Id: | 150524 | **Roll No:** | | | | | | | | | | | | |

B.PHARM
(SEM-V) THEORY EXAMINATION 2019-20
PHARMACOLOGY-I (PHARMACOLOGY & TOXICOLOGY)

Time: 3 Hours   *Total Marks: 70*
Note: **1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1.   **Attempt *all* questions in brief.**   **2 x 7 = 14**
  a.   What is Plasma Half Life? Mention the drug which is excreted by First order kinetics.
  b.   Define Competitive antagonism with suitable example.
  c.   What is Biological Standardization? Enlist its types.
  d.   What is IND application in drug discovery and development?
  e.   Define First pass metabolism.
  f.   What is Intrinsic activity and Affinity?
  g.   Write note on Idiosyncrasy.

SECTION B

2.   **Attempt any *three* of the following:**   **7 x 3 = 21**
  a.   Write down the treatment protocol in case of Opioid poisoning.
  b.   Describe the synthesis, storage and metabolism of acetylcholine.
  c.   Explain different phases involved in metabolism of drug.
  d.   Write down the complete pharmacology of d-tubocurarine.
  e.   Classify antidepressant agents. Explain the site of action for antidepressant drugs.

SECTION C

3.   **Attempt any *one* part of the following:**   **7 x 1 = 7**
  (a) Write all the phases involved in drug discovery and development.
  (b) Explain the GPCR mechanistic pathway for drug action.

4.   **Attempt any *one* part of the following:**   **7 x 1 = 7**
  (a) Write down the classification, mechanism of action and uses of ganglionic blockers.
  (b) Classify anti-cholinesterase agents. Write note on pharmacotherapy of Myasthenia gravis.

5.   **Attempt any *one* part of the following:**   **7 x 1 = 7**
  (a) Classify peripherally acting muscle relaxants. Write down the mechanism of action of succinylcholine.
  (b) Write down the pharmacology of local anesthetics with reference to local and systemic effects.

6.   **Attempt any *one* part of the following:**   **7 x 1 = 7**
  (a) Classify Anti-epileptics drugs. Write short note on sodium valproate.
  (b) Enlist different types of opioid receptors. Write note on opioid antagonists.

7.   **Attempt any *one* part of the following:**   **7 x 1 = 7**
  (a) Enlist the steps during the treatment of barbiturates poisoning.
  (b) What is Poison? Write short note on universal antidote for poisoning.