

M. PHARM. (SEM-II)
CARRY OVER EXAMINATION 2016-17
ADVANCE PHARMACOLOGY

*Time : 3 Hours**Max. Marks : 100**Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.*

- 1. Attempt any Two parts of the following: 2 × 10 = 20**
 - (a) What are G-Protein coupled receptors? Discuss with examples how they produce drug action through second messengers?
 - (b) Write about Pharmacology of atrial peptides and nitric oxide.
 - (c) What are antioxidants and give their therapeutic implications.

- 2. Attempt any Two parts of the following: 2 × 10 = 20**
 - (a) Name various types of cholinergic receptors and their signaling mechanism.
 - (b) What are Adrenoceptors? Discuss clinical benefits of Adrenoceptors Antagonist.
 - (c) Write a note on Angiotensine receptor

- 3. Attempt any Two parts of the following: 2 × 10 = 20**
 - (a) Classify cholinergic receptors according to their therapeutic use.
 - (b) What are opioid receptors? Classify and give their importance.
 - (c) Write a note on GABA and Benzodiazepine receptors.

- 4. Attempt any Two parts of the following: 2 × 10 = 20**
 - (a) What is apoptosis? Discuss pharmacological and clinical implication.
 - (b) What are Chronopharmacology? Describe their implications to Drug Therapy.
 - (c) Explain Immunopharmacology. Describe antibody dependent and cellular cytotoxicity.

- 5. Attempt any Two parts of the following: 2 × 10 = 20**
 - (a) Describe gene therapy. Give recent development in gene therapy.
 - (b) What are transgenic mouse? Give its applications.
 - (c) Explain human genome mapping and its potential in drug research.