



[3756] – 207

**Second Year B. Pharmacy Examination, 2010
(2008 Pattern)**

2.7 : PHARMACOLOGY – I (Including Pathophysiology)

Time: 3 Hours

Max. Marks: 80

- Instructions :** 1) Question Nos. 1 and 5 are **compulsory**. Out of the remaining attempt 2 questions from Section – I and 2 questions from Section – II.
- 2) Answers to the **two** Sections should be written in **separate** answer books.
- 3) Neat labelled diagrams must be drawn **wherever** necessary.
- 4) Black figure to the **right** indicate **full** marks.

SECTION – I

1. Explain the term biotransformation. Enlist the various reactions involved in the biotransformation of drugs. Explain in detail synthetic reactions. **10**
2. a) Explain the term adverse drug reaction. Discuss in detail Toxic effects and Side effects. **10**
- b) Write the applications of gene therapy in various genetic disorders with examples. **5**
3. a) Classify NSAIDs. Write the pharmacological actions, therapeutic uses and adverse drug reaction of salicylates. **10**
- b) Discuss about the non viral vectors for gene transfer. **5**
4. Write a note on the following (**any three**) : **15**
- a) H₂ receptor antagonists
- b) Redistribution and Placental barrier
- c) Warfarin
- d) Carcinogenicity and mutagenicity.

P.T.O.



SECTION – II

5. Define peptic ulcers. Explain the etiology and pathogenesis and complications of acute and chronic PU. **10**
6. a) Define and classify psychosis. Discuss the pathophysiology of schizophrenia. **10**
b) Discuss the pathophysiology of malignancy. **5**
7. a) Define ischemic heart disease. Discuss the etiopathogenesis and write the effects of myocardial ischemia. **10**
b) Discuss the pathophysiology of acute renal failure. **5**
8. Write a note on the following (**any three**) : **15**
a) Typhoid fever
b) AIDS
c) Malaria
d) Pathophysiology of hypersensitivity.