

**FACULTY OF PHARMACY**  
**Pharm. D (6 YDC) III-Year (Main) Examination, July 2017**

**Subject : Pharmacology - II**

**Time : 3 Hrs****Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

- 1 What are anticoagulants? Write their therapeutic uses.
- 2 Write a note on Fibrinolytics.
- 3 Explain about osmotic diuretics.
- 4 Explain about Acetazolamide.
- 5 Classify antifungal agent with example.
- 6 Classify anticancer drugs.
- 7 Explain about suicidal bags of the cell.
- 8 What are the principles involved in toxicology?
- 9 Explain oncogenes and tumor suppressor genes.
- 10 Define mutations, deletions and amplifications.

**PART – B (5 x 10 = 50 Marks)**

- 11 What are the basic principles of transcription in pro and eukaryotes and discuss the factors that regulate transcription?
- 12 What are the different toxicity studies? Explain how to design a protocol for chronic toxicity studies.
- 13 Explain the mechanism of action, pharmacological activity uses and adverse effects of Loop Diuretics.
- 14 What are signal transduction pathways explain any four of them?
- 15 Write the mechanism of action, therapeutic uses and adverse effects of
  - (a) Penicillins
  - (b) Tetracyclines
- 16 Explain in detail about chemotherapy of tuberculosis.
- 17 What is Recombinant DNA technology? Write their processes and applications.
- 18 Describe about gene sequencing and mapping.

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