

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Pharm D – 3<sup>rd</sup> Year • EXAMINATION – WINTER 2023**

**Subject Code: 838801****Date: 29/01/2024****Subject Name: Pharmacology-II****Time: 10:30 AM to 1:30 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Enumerate subcellular organelles. Give the functions of the any four subcellular organelles. **06**
- (b) Discuss mechanisms of action of Antiplatelet drugs. **04**
- (c) Classify anti-coagulants. Differentiate between heparin and warfarin. **04**
- Q.2** (a) Classify diuretics. Write a note on high ceiling diuretics. **06**
- (b) Write a note on Plasma expanders. **04**
- (c) Write a note on recombinant DNA technology. **04**
- Q.3** (a) Give classification, mechanism of action, antibacterial spectrum and side effects of cephalosporins. **06**
- (b) Write note on chloramphenicol. **04**
- (c) Write a short note on mechanism, side effects, therapeutic effects and antibacterial spectrum of streptomycin. **04**
- Q.4** (a) Classify antimalarial drugs. Describe the mechanism of action and adverse effects of Chloroquine. **06**
- (b) Write a note on antifungal drugs. **04**
- (c) Write mechanism of action, adverse effects and therapeutic uses of Metronidazole. **04**
- Q.5** (a) Classify anticancer agents and describe the role of anti-metabolites as anticancer agents. **06**
- (b) Classify antiviral drugs on the basis of mechanism of action. **04**
- (c) Discuss the pharmacology of immunosuppressants. **04**
- Q. 6** (a) Write in brief about genetic elements that control gene expression. **06**
- (b) Write a note on acute toxicity study. **04**
- (c) Discuss the basic principles of transcription in eukaryotes. **04**
- Q.7** (a) Write a note on Cell signaling. **06**
- (b) Explain the factors that alter gene function. **04**
- (c) Write about the cell cycle. **04**

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