

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Pharm D –Year-3 • EXAMINATION –WINTER-2021

Subject Code: 838801

Date: 21/02/2022

Subject Name: Pharmacology-II

Time: 10:30 AM to 01:30 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) Classify antifungal agents. Write in detail about Fluconazole. **06**
(b) Write a detail note on Dapsone. **04**
(c) Explain in detail about chemotherapy of malaria. **04**
- Q.2** (a) Classify antiviral agents. Write mechanism of action, adverse effects and therapeutic uses of Acyclovir. **06**
(b) Write a note on Heparin antagonist. **04**
(c) Write a note on anthelmintic agents. **04**
- Q.3** (a) Explain in detail about DNA replication. **06**
(b) What are the vectors used in gene transfer? **04**
(c) Discuss the recombinant DNA technology **04**
- Q.4** (a) What is cell signaling? Explain any one kinase signal transduction pathway. **06**
(b) Define Gene therapy. Write about gene targeting. **04**
(c) Write a note on Mutation. **04**
- Q.5** (a) Classify diuretics with suitable example. Write pharmacological action and therapeutic uses of loop diuretics. **06**
(b) Explain in brief about pharmacology of anti-diuretics. **04**
(c) How is cancer caused? Classify the drugs used to treat cancer. **04**
- Q.6** (a) Write the mechanism of actions: **06**
(i) Acetazolamide (ii) Vasopressin (iii) Rifampicin.
(b) Comment: **04**
1) Gray baby syndrome is a common adverse effect of Chloramphenicol.
2) Sulphonamides are associated with kernicterus if administered in newborns.
(c) What are Plasma Expanders? Give its therapeutic uses. **04**
- Q.7** (a) What is mean by transcription? How it is regulated? **06**
(b) Classify the immunosuppressants and its clinical application. **04**
(c) Describe in detail the determination of sub acute and chronic toxicity. **04**
