

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER- VII -EXAMINATION – WINTER -2019**Subject Code: 2270003****Date: 20/11/2019****Subject Name: Pharm. Chemistry-IX (Med. Chem.-III)****Time: 10:30AM TO 01:30PM****Total Marks: 80****Instructions:**

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

- Q.1** (a) Write short notes on computer aided drug design. **06**
(b) What is Hansch analysis ? Discuss. **05**
(c) Discuss Free Wilson mathematical model of QSAR. **05**
- Q.2** (a) Write detail note on alkylating anticancer agents. **06**
(b) What are antiviral and anti HIV agents. **05**
(c) What are anthelmintics ? Give synthesis of Albendazole. **05**
- Q.3** (a) What do you mean by chemotherapeutic agents ? Give SAR of Cephalosporins. **06**
(b) Write IUPAC name and synthesis of the following drugs : **05**
(i) Trimethoprim (ii) Sulphacetamide
(c) What are Fluoroquinolones ? Give their SAR. **05**
- Q.4** (a) What is QSAR ? Discuss electronic parameters in it. **06**
(b) Write short notes on combinatorial chemistry. **05**
(c) Give synthesis of the following drugs : **05**
(i) Fluorouracil (ii) Tamoxifen
- Q.5** (a) What are Aminoglycosides ? Discuss their SAR with examples. **06**
(b) Write short note on β -lactam antibiotics. **05**
(c) Write SAR of Tetracyclines. **05**
- Q.6** (a) Write short notes on drugs used for Mycobacterium infection. **06**
(b) Classify antifungal agents with examples, How they act. **05**
(c) Write IUPAC name and synthesis of the following drugs : **05**
(i) Ketoconazole (ii) Pyrizinamide
- Q.7** (a) What is malaria ? How it spreads? Classify antimalarial drugs with examples. **06**
(b) Give synthetic routes of the following drugs : **05**
(i) Primaquine (ii) Metronidazole
(c) Write short notes on Antiamoebic agents. **05**
