

GUJARAT TECHNOLOGICAL UNIVERSITY**Pharm D – 3rd Year • EXAMINATION – WINTER - 2019****Subject Code: 838805****Date: 26/11/2019****Subject Name: MEDICINAL CHEMISTRY****Time: 02:30PM TO 05:30PM****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 anticancer agents and write about any one class in detail. 06
(b) Write a short note on Combinatorial Chemistry. 04
(c) Write a note on Calcium channel blockers as an antihypertensive agent. 04
- Q.2 (a) Write a brief note on Sex Hormones and also write down SAR of Adrenocorticoids. 06
(b) Write IUPAC names and synthesis of following (Any two) 04
 i) Fluorouracil ii) Lignocaine iii) Warfarin
(c) Briefly explain SAR of Fluoroquinolones. 04
- Q.3 (a) Define and Classify antifungal agents. Write in detail about azoles as antifungal. 06
(b) Write a note on antianginal agents. 04
(c) Give brief account on antiseptic and disinfectant. 04
- Q.4 (a) Enumerate different methods used in QSAR and discuss anyone of them. 06
(b) Write a note on CADD. 04
(c) Give SAR of HMG CoA Reductase Inhibitors. 04
- Q.5 (a) What are antitubercular agent? Briefly explain first line antitubercular agents. 06
(b) Define and classify hypoglycemic agents. Illustrate your answer with the specific examples. 04
(c) Explain the importance of Prodrug in drug design. 04
- Q.6 (a) Explain Life cycle of malarial parasite and drug acting on each stage of life cycle write brief note on Quinoline as antimalarial agents. 06
(b) Classify anti-HIV agents and write down on reverse transcriptase inhibitors. 04
(c) Draw Life cycle of Entamoeba Histolytica. Add a note on Nitroimidazole derivatives 04
- Q.7 (a) Write detail note on macrolide antibiotics and aminoglycoside antibiotics. 06
(b) Write MOA, uses and side effects on sulphonamide in detail. 04
(c) Write a short note on Anthelmintics. 04