

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Winter 2018-19 Examination

Semester: 7**Subject Code: 08101401****Subject Name: Pharmaceutical Chemistry-IX (Medicinal Chemistry-III)****Date: 26/11/2018****Time: 10:00 am to 1:00 pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)

1. Write chemical classification, mechanism of action of anti-malarial agents in detail.
2. Write Antimetabolite agents use in treatment of cancer with synthesis of Methotrexate.
3. Write a note on natural and semi synthetic penicillin with synthesis of Clofazimine.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)

1. Write a note on alkylating agents for treatment of cancer.
2. Discuss Nomenclature of Steroids in detail.
3. Write short note on azole antifungal agents.
4. Explain SAR of Tetracycline.
5. Discuss anti-thyroid agents in brief.
6. Write brief note on HIV Protease inhibitors.
7. Write chemical classification sulphonamide.
8. Explain first line and second line agents use in Tuberculosis treatment.
9. Discuss SAR of Cephalosporin.

Q.3 Answer in short. (2 marks each) (20)

1. Write IUPAC and synthesis of Chloramphenicol.
2. Write synthesis of Thiotepa.
3. Write brief note on nitroimidazole derivative use as antiprotozoal agent.
4. Explain chemistry of Macrolide in brief.
5. Discuss Thrombolytic agent in brief.
6. Write synthesis of warfarin.
7. Write SAR of Fluoroquinolone.
8. Outline Synthesis of Isoniazide.
9. Draw any two structure of NRTI use as anti-viral agent.
10. Discuss natural products use as anticancer agent in brief.