Seat No: _____ Enrollment No:_____

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Winter 2019-20 Examination

Semester: 7 **Date: 19/11/2019**
Subject Code: Pharmaceutical Chemistry – IX (Medicinal Chemistry – III) **Time: 10:00 am to 1:00 pm**
Subject Name: 08101401 **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 the classification, mechanism of action and SAR of Cephalosporins.
2. Write the classification of anti-malarial agents. Discuss the SAR and synthesis of Chloroquine.
3. Discuss the classification of antimetabolites used for cancer therapy along with their mechanism of action. Mention the synthesis of Methotrexate.

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

1. Mention the classification and mechanism of action of Sulfonamides.
2. Write the mechanism of action and SAR of Fluoroquinolones.
3. Explain first line and second line agents used in Tuberculosis treatment. Mention the synthesis of Clofazimine.
4. Write the synthesis of (a) Sulphacetamide (b) Ketoconazole.
5. Write the structure, mechanism of action and synthesis of Amantadine.
6. Discuss briefly about the nomenclature and stereochemistry of steroids.
7. Mention the SAR of Estrogens and Progestins.
8. Classify drugs used for treatment of hyperthyroidism. Mention the synthesis of Methimazole.
9. Mention synthesis and mechanism of action of Para-amino salicylic acid.

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

1. Write classification of azole antifungal agents.
2. Mention the Mechanism of action of Vancomycin.
3. Mention the synthesis of Sulphanilamide.
4. Define Antiamoebics and Anthelmintics with one example each.
5. Discuss the mechanism of action of aminoglycosides.
6. Mention the structure of two drugs used for leishmaniasis.
7. Discuss the mechanism of action of coagulants.
8. Mention the therapeutic uses of Thrombolytics.
9. Write a note on Neuraminidase inhibitors.
10. Define anticoagulants. Mention the synthesis of Warfarin.