

PARUL UNIVERSITY
FACULTY OF PHARMACY
Pharm.D Examination April 2019

Year: 3**Subject Code: 08207305****Subject Name: Medicinal Chemistry****Date: 25/04/2019****Time: 10:00am To 01:00pm****Total Marks: 70****Instructions**

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

Q.1 Essay Type Questions. (any 2 out of 3) (15 Mark Each) (30)

1. Classify Antineoplastic agents with all structures & explain the mechanism of alkylating agents.
2. Give a detail note about QSAR.
3. Write down the classification of β -lactum antibiotics with SAR of penicillin.

Q.2 Short Essay Type Questions. (any 4 out of 5) (5 Mark Each) (20)

1. Classify diuretics with SAR of thiazides.
2. Give the classification of anti-hypertensive drugs with all structures.
3. Classify Anti-tb drugs with the synthesis and MOA of isoniazid(INH).
4. Write down the synthesis and MOA of Methotrexate.
5. Classify Anthelmintics drugs with the synthesis and MOA of albendazole **OR** mebendazole.

Q.3 Short Answers. (2 Mark Each) (20)

1. Give the synthesis and use of Metronidazole.
2. Write a brief note on Antithyroid agents.
3. Give the structure of any 4 diagnostic agents.
4. Write a brief note on Reverse transcriptase inhibitor.
5. Draw the structure and numbering of Cholesterol ring.
6. Give the classification of Anti-malarial drugs.
7. Give a short detail on Hypoglycemic agents.
8. Classify azole category of Anti-fungal agents.
9. Write down the SAR of Sulphonamides.
10. Classify Antihyperlipidemic agents.