

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**Pharm. D Examination -Nov - 2018**

**Year: 3****Subject Code: 08207305****Subject Name: Medicinal Chemistry****Date: 02/11/2018****Time: 10:00 am to 1:00 pm****Total Marks: 70 marks****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)**

1. What is computer aided drug design? Write application of CADD. (15)
2. Write a note on both Combinatorial Chemistry and QSAR. (15)
3. What are beta-lactam antibiotics? Give the nomenclature of different types of rings related to beta-lactam with examples. Enumerate the advantages of cephalosporin over penicillin antibiotic and uses of both. (15)

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

1. Write SAR of Tetracyclines. (05)
2. What are Aminoglycoside antibiotics? Explain its chemistry, mechanism of action. (05)
3. Give synthesis of Chloramphenicol and Fluconazole. (05)
4. Write a note on Antifungal agents. (05)
5. Explain in detail about SAR of Cephalosporins. (05)

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

1. What are Anti-neoplastic agents? Classify it with example. (02)
2. Give the synthesis of Clotrimazole. (02)
3. Classify Anti-viral agents.
4. What is the difference between malaria and dengue? (02)
5. How Sulfonamide and Trimethoprim acts? (02)
6. Classify different Anti-cancer agents. (02)
7. Give mechanism of action and uses of different anti-infective agents. (02)
8. Explain about second line treatment of TB. (02)
9. Write a note on short acting Sulphonamides (02)
10. Write synthesis of acyclovir. (02)