

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**Pharm.D April 2019 Examination**

**Year: 3**

**Subject Code: 08207301**

**Subject Name: Pharmacology-II**

**Date: 16/04/2019**

**Time: 10:00am To 01:00pm**

**Total Marks: 70**

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**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 anticancer agents. Write about antimetabolites in detail. Write a note on carcinogenicity testing.
2. Define diuretics. Classify them and write the pharmacology of furosemide.
3. Define Gene. Write applications of gene therapy. Write a note on Recombinant DNA Technology.

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

1. Write a note on bacterial resistance to antimicrobial agents.
2. Write a note on Plasma expanders.
3. Classify anticoagulants. Write a note on low molecular weight heparins.
4. Describe cell cycle with diagram. Write about cell cycle regulators and modifiers.
5. Discuss acute and sub acute toxicity studies.

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

1. Explain Jarisch Hexcheimer reaction.
2. Differentiate between norfloxacin and gatifloxacin.
3. Write mechanism of action of Sulphonamides.
4. Write therapeutic uses of immunosuppressants.
5. Differentiate between eukaryotic and prokaryotic cell.
6. Write the Adverse effects of aminoglycosides.
7. Classify antiviral agents.
8. Briefly describe ion-channels as cell signaling pathway.
9. What are biosensors?
10. Write the mechanism of action of Fluoroquinolones.