

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS**  
**(Deemed to be University) , SALEM**

**Pharm.D DEGREE EXAMINATION - September 2021**  
**Third Year**

**PHARMACOLOGY - II**

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x 15 = 30)

1. Classify anticoagulants. Discuss the mechanism of Warfarin. Add a note on dose regulation of Oral Anticoagulants.
2. Classify diuretics. Explain the mechanism, pharmacological actions, adverse events and therapeutic uses of Furosemide.
3. What are Quinolones? Give examples. Discuss the mechanism, Spectral activity, adverse drug reactions and uses of Ciprofloxacin.

II. Write short answers on any **SIX** questions: (6 x 5 = 30)

4. Discuss the significance of TNF $\alpha$  inhibitors as Immunosuppressant.
5. Define the term Therapeutic Index and writ its significance in Therapeutic Drug Monitoring.
6. Write briefly on Cell and Macromolecules.
7. Define cell cycle. Write briefly on factors regulating cell cycle.
8. Explain the basic principles of gene therapy.
9. Discuss the mechanism of protein synthesis in Eukaryotes.
10. Discuss the application of Recombinant DNA Technology.
11. Write notes on Biosensors.

III. Write short notes on any **FIVE** question: (5 x 2 = 10)

12. Name two Immunostimulants with its uses.
13. What are haemopoietic agents? Give example and write its uses.
14. Mention the uses of Vasopressin.
15. Define the term acute and chronic toxicity study.
16. Define mutation and give two examples for human disease linked with mutations.
17. Write the Adverse drug reactions and contraindications of Metronidazole.

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