

**VVINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

**Pharm.D DEGREE EXAMINATION – July 2021
Third Year**

PHARMACOLOGY - II

Time: Three hours

Maximum: 70 marks

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

1. Classify antimalarial agents. Write briefly on mechanism, adverse drug reactions and preparation of Chloroquine.
2. Define the term Cell Signaling. Discuss any two pathways of Signal Transduction with suitable examples.
3. Define and Classify Immunosuppressants. Write briefly on the mechanism, specific adverse events and uses of Cyclosporine.

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

4. What are plasma volume expanders? Write briefly on any two plasma expanders.
5. Discuss the mechanism of action and therapeutic uses of streptokinase.
6. Classify antiviral drugs and discuss the mechanism of Zidovudine.
7. Enumerate the mechanism of action and uses of Cotrimaxazole.
8. Write briefly on osmotic diuretics pertaining to its mechanism and uses.
9. What is gene therapy? Discuss the applications of gene therapy.
10. Discuss the applications of Gene Transfer Technology.
11. Write notes on RNA processing.

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

12. Name two antiplatelet drugs and mention its therapeutic uses.
13. Mention the uses of Triamterene.
14. Give example for Beta lactamase inhibitor and write its therapeutic uses.
15. Give two examples for m- TOR inhibitors with its uses.
16. What is DNA replication? Mention the stages of DNA replication.
17. Mention the applications of human genome sequencing.
