

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

Pharm.D DEGREE EXAMINATION - September 2021
Third Year

MEDICINAL CHEMISTRY

Time: Three hours

Maximum: 70 marks

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

1. Define and classify anticancer agents. Enumerate the mechanism of action and synthesis of any two anticancer drugs.
2. Define antibiotics and classify antibiotics with suitable examples. Outline the synthesis, mechanism and SAR of chloramphenicol.
3. Define and classify prodrugs. Explain about various prodrug concepts with suitable examples.

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

4. Classify antimalarial agents with suitable examples. Outline the synthesis of chloroquine phosphate.
5. Write note on CADD.
6. Explain the mechanism of action for any two diuretics with suitable examples.
7. Outline the synthesis and use of isoniazid and metronidazole.
8. What are Sulphonamides? Explain the mechanism of action of sulphonamides.
9. Enumerate the SAR of any two antihypertensive drugs.
10. Write the structure and uses of any two antiviral agents.
11. Write note on urinary tract anti – infective agents.

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

12. Define and brief on QSAR.
13. Outline the structure of any two pharmaceutical preservatives.
14. What are diagnostic agents? Give the structure and uses of any two dyes used as diagnostic agents.
15. Outline the structure and uses of estrogen and progesterone.
16. Write briefly about antisense molecules.
17. Give the structure and uses any two antiscabies agents.
