

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

**B.PHARM. DEGREE EXAMINATION – February 2020**  
**Fourth Year**

**MEDICINAL CHEMISTRY - II**

Time : Three hours

Maximum: 70 marks

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

1. Explain the various physiochemical properties affects the drug action in QSAR.
2. Discuss the chemistry, nomenclature, general method of synthesis and uses of sulphonamides.
3. Write the chemical structure.synthesis and use of  
i) Mercaptopurite ii) Methotrexate

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

4. What ate antiscabies agents? Give the synthesis A benzyl benzoate
5. Write notes on contraceptives.
6. Give the synthesis and uses of metronidazole.
7. Classify antiviral agents with examples.
8. What are cardiotonics? Discuss its chemistry.
9. Write the structures, synthesis and uses of isosorbide dinitrate
10. Classify antihyperlipidemic agents with examples.
11. Write notes on aminoglycoside antibiotics.

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

12. Define partition coefficient.
13. Give examples for ACE inhibitors.
14. What are  $\beta$ - lactam antibiotics? Give basic structure.
15. Write the mode of action of antiviral agents.
16. Give the structure and uses of verapamil.
17. Write examples of sulphonamide combination drugs.

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