

Sl.No:M21210

Course Code: BP501T

**VINAYAKA MISSION'S RESEARCH FOUNDATION**

**(Deemed to be University) , SALEM**

**B.PHARM. DEGREE EXAMINATION – October 2021**

**Fifth Semester**

**MEDICINAL CHEMISTRY – II**

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. a) Classify diuretics with examples.  
b) Discuss the mechanism of action and SAR of thiazides.
2. a) What are corticosteroids?  
b) Write in detail the SAR of glucocorticoids.
3. a) Classify antiarrhythmic drugs with examples.  
b) Write the SAR of 1,4 – dihydropyridines.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Classify anti- histaminic drugs with examples. Outline the synthesis of Diphenhydramine.
5. Classify antineoplastic agents with examples.
6. Illustrate the mechanism of action of organic nitrates. Outline the synthesis of isosorbide dinitrate.
7. Classify antihyperlipidemic drugs with examples. Summarize the mechanism of action of statins.
8. Write the structure and uses of the following  
a) Procainamide b) Clofibrate c) Menadione d) Methimazole  
e) Clopidogrel.
9. Write the steps involved in the formation of T<sub>3</sub> & T<sub>4</sub> .
10. Illustrate the structure, chemistry and uses of Diethyl stilbestrol.
11. Classify oral hypoglycemic drugs with examples. Draw the structure of Metformin.
12. Discuss the SAR of anilides.

III. Write short notes on : (10 x 2 = 20)

13. Outline the synthesis of promethazine.
14. Draw the structure and uses of cyclophosphamide.
15. What is a loop diuretic? Give examples.
16. Write the synthesis of Nitroglycerin. What is it used for?
17. Draw the structure and use of lidocaine.
18. Give examples for bile acid sequesterants.
19. Draw the structure and use of Testosterone.
20. What are oral contraceptive drugs? Give any two examples.
21. Enumerate the synthesis of procaine.
22. Name any four sulphonyl ureas. What are they used for?

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