

**IV B. Pharmacy II Semester Adv. Supplementary Examinations, July - 2017**  
**MEDICINAL CHEMISTRY – III**

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions  
All Questions carry **Equal** Marks

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1. a) Classify the cardiovascular drugs and give suitable examples with their structures. (8M)  
Write the mode of action of Digitalis.
- b) Discuss the SAR and mechanism of action of antiarrhythmics drugs. (7M)
2. a) Classify antihypertensive drugs with suitable examples. Discuss the SAR and the synthesis of enalapril. (8M)
- b) Explain about Vasodilators and write the synthesis, uses, toxicity of Verapamil. (7M)
3. a) Write a brief account on Statins. (8M)
- b) Define diuretics and give their classification, structure of one compound from each class "Give mechanism of action and SAR of loop diuretics". (7M)
4. a) Classify the Sulpha drugs, give SAR and synthesis of Sulphamethoxazole. (8M)
- b) Classify antifungal drugs with suitable examples. Discuss the SAR and the synthesis of Itraconazole. (7M)
5. a) Classify antitubercular agents with suitable examples. Give the mode of action and synthesis of Ethambutol. (8M)
- b) Enumerate various antileprotic drugs by giving their structures. Outline the synthesis, mode of action of Dapsone. (7M)
6. a) Classify antihelmintics with suitable examples. Outline the synthesis, mode of action, uses of diethylcarbamazine citrate. (8M)
- b) Define and classify the antiamoebic drugs with suitable examples by their structures. Give uses, toxicity and synthesis of Metronidazole. (7M)
7. a) Classify antimalarials. Explain mechanism of action, synthesis and uses of Pyrimethamine. (8M)
- b) Classify antiviral with suitable examples. Give mechanism of action, uses of Zidovudine. (7M)
8. a) What is Cancer? Classify the anticancer drugs with suitable examples by their structures. Outline the mode of action, synthesis of Methotrexate. (8M)
- b) Describe the SAR, mode of action, uses, toxicity of Vinblastin and Vincristine. (7M)

