

IV B. Pharmacy II Semester Supplementary Examinations, April - 2018
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 anti-arrhythmic drugs. Add a note on MOA of membrane stabilizing agents and give synthesis of procainamide. (10M)
- b) Define cardiac glycosides and sketch general structure. Explain MOA of digitalis. (5M)
2. a) Classify anti- hypertensive agents with examples. Write the synthesis of methyl dopa. (9M)
- b) Define anti-anginals. Write the synthesis and mechanism of action of Isosorbide dinitrate. (6M)
3. a) What are thiazides? Add a note on SAR of thiazides. Give synthesis of hydrochlorothiazide. (10M)
- b) Define antihyperlipidemics. Outline the synthesis of Clofibrate. (5M)
4. a) Write the synthesis and uses of Trimethoprim. (6M)
- b) Classify antifungal agents with examples. Outline the synthesis of Fluconazole. (9M)
5. a) Define and classify anti tubercular agents. Sketch the structures of two examples and synthesis of Isonicotinic acid hydrazide. (9M)
- b) What are anti leprotic agents? Outline the structure and synthesis of Dapsone. (6M)
6. a) Define and classify Anti amoebics. Write the synthesis of Metronidazole. (8M)
- b) Write the synthesis and uses of mebendazole. (7M)
7. a) Explain in detail the steps involved in synthesis of chloroquine. (6M)
- b) Define and classify anti viral drugs. Outline the synthesis of acyclovir. (9M)
8. a) Write the definition and classification of anticancer drugs. (6M)
- b) Discuss general SAR and MOA of alkylating agents. Outline the synthesis of chlorambucil. (9M)

