

Code No: B4201

R10**SET - 1****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

~~~~~

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)

