

III B. Pharmacy I Semester Supplementary Examinations, May - 2019
MEDICINAL CHEMISTRY-II

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART -A

1. a) Note on Drug resistance. (3M)
- b) Outline the structure and mode of action of Fluconazole. (4M)
- c) Write the synthesis and therapeutic uses of Amantadine. (4M)
- d) Explain the chemistry of Streptomycin. (3M)
- e) Give the structure, chemistry and uses of Cyanocobalamin. (4M)
- f) Relate the role of Vitamin A in vision. (4M)

PART -B

2. a) Classify the Anti-leprotic agents and outline the synthesis of Dapsone. (8M)
- b) Make a note on SAR and MOA of Sulphonamides. (8M)
3. a) Write an account on Anthelmintics. Give the synthesis of Chloroquine. (10M)
- b) Discuss the SAR and mode of action of imidazole derivative of Anti-amoebic agents. (6M)
4. a) Classify and discuss the MOA of each classes of Anti-neoplastic agents. (8M)
- b) Detail on anti-HIV agents. Outline the synthesis of Acyclovir. (8M)
5. a) Give the classification, MOA and uses of Tetracyclines. (8M)
- b) Discuss the SAR and uses of Penicillins. (8M)
6. a) Give the structure, chemistry and uses of Vitamin B₁, B₂ and B₁₂. (8M)
- b) Discuss the uses and biological role of Folic acid and Nicotinamide. (8M)
7. a) What are fat soluble Vitamins? Give their structure and uses. (6M)
- b) Discuss the structural feature, interconversion, uses and biological role of Vitamin D. (10M)