

FACULTY OF PHARMACY**Pharm D (6-YDC) III – Year (Main & Backlog) Examination, June 2018****Subject: Medicinal Chemistry****Time: 3 Hrs****Max.Marks: 70****Note: Answer all questions from Part – A. Any Five questions from Part – B.****PART – A (10x2 = 20 Marks)**

- 1 Define scabicide with example.
- 2 Mention the type of hyperlipoproteinemia.
- 3 Give two examples with therapeutic use of polypeptide antibiotics.
- 4 Differentiate between disinfectant and antiseptic.
- 5 Write the chemical structure and uses of testosterone.
- 6 Define the term pro-drug and write application.
- 7 What is combinatorial synthesis?
- 8 Write the structure mode of action of fluconazole.
- 9 Write the mode of action of cardiac glycoside.
- 10 Classify antihelmintic agents.

PART – B (50 Marks)

- 11 a) Write the classification of anti-malarial agents with one example from each class. 5
b) Write synthesis, mode of action: 5
 - i) Cefalexine
 - ii) Minocycline.
- 12 a) Write the S.A.R of cephalosporin and the synthesis of ampicillin. 5
b) What are antiarrhythmic drugs? Classify them with examples, write the structure and uses of verapamil, phenytoin, and propranolol 5
- 13 a) Write the S.A.R. of thiazide diuretic. 5
b) What are calcium channel blockers? Describe their effect on cardiovascular system. Write the synthesis of Warfarin. 5
- 14 Write the synthesis, mode of action of following drugs: 10
 - i) Propylthiouracil
 - ii) Mebendazole
 - iii) Clofibrate
 - iv) Tolbutamide
- 15 a) Write the S.A.R of sulfonyl ureas. 5
b) Write the synthesis mode of action of:
 - i) Albendazole
 - ii) Ketoconazole 5
- 16 a) Write the classification of antiviral drug with one example of each class. 5
b) Write the synthesis, mode of action of: 5
 - i) Ethambutol
 - ii) Isoniazid
- 17 Write short notes on: 10
 - i) Anti-inflammatory steroid
 - ii) Endocrine hormone
- 18 a) Classify antianginal agent with example. 5
b) Write the S.A.R of 7-chloro-4-amino quinolin. 5
