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FACULTY OF PHARMACY

Pharm. D (6 YDC) III-Year (Main & Backlog) Examination, July 2019

Subject : Medicinal Chemistry

Time: 3 Hrs

Max. Marks: 70

Note: Answer all questions from Part – A, answer any five questions from Part-B.

- 1 What are preservatives? Draw the structures of any two of them.
- 2 Write the synthesis of Tolbutamide.
- 3 What is DOTS therapy ? Explain.
- 4 Explain why tetracyclines should not be taken with milk.
- 5 What is selenium distillation of steroids?
- 6 Write the difference between penicillins and cephalosporins.
- 7 Define prodrug with examples. Write any two applications.
- 8 Classify anti arrhythmic agents with examples.
- 9 Write the mechanism of action of carbonic anhydrase inhibitors.
- 10 What are antisense molecules? Give examples.

PART - B (5 x 10 = 50 Marks)

11	Define QSAR. Explain in detail the parameters of QSAR.	(10)
12	(a) Classify antifungal agents with examples.(b) Write the mechanism of action of any two classes of antihyper lipidemics.	(5) (2½+2½)
13	(a) Give the classification of antineoplastic agents.(b) Write the SAR and mechanism of action of alkylating agents.	(6) (2+2)
14	 (a) Classify calcium channel blockers? Write its mechanism of action and SAR. (b) Write the synthesis of (i) Verapamil (ii) Nefidepine 	(2+2+2) (3+1)
15	(a) Write the chemistry involved in the steroidal drugs.(b) Write a short note on Oral contraceptives.	(5) (5)
16	 (a) Write mechanism of action and SAR of : (i) Thiazide diuretics (ii) Thiaznolidine diomes 	(3+3)
	(b) Write a short note on thyroid drugs.	(4)
17	Writ the synthesis, mode of action of (2 (a) Isosorbide dinitrate (b) Metformim (c) Warfnin (d) Dipyridamol	2+3+2+3)
18	(a) Write a short notes on Hypoglycemic agents.(b) Write the structure and uses of (i) testosterone (ii) Progesterone	(6) (4)
