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## FACULTY OF PHARMACY

Pharm. D (6 YDC) III-Year (Instant) Examination, February 2020

## Subject : Medicinal Chemistry

Time: 3 Hrs

Max. Marks: 70

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

## PART - A (10 x 2 = 20 Marks)

- 1 What is CADD? What are its advantages?
- 2 Write the synthesis of Isoniazid.
- 3 Define Antibiotics. Write the mechanism of action of aminoglycoside antibiotics.
- 4 What are antihelminthics? Give examples.
- 5 Draw the structures of : (a) Cortisone (b) Hydrocortisone
- 6 Explain epimenization reaction in tetracyclines.
- 7 Write the degradation reactions of Penicillins.
- 8 What are Coagulants? Give the examples with structures.
- 9 Write the brand names of the following drugs.(a) Amoxacillin + clavulanic acid (b) Cefpodoxiome
- 10 Define antiseptics and disinfectants with examples.

## **PART – B** (5 x 10 = 50 Marks)

11	What is combinatorial synthesis? Explain in detail the essential requirements of solid phase synthesis.	(10)
12	<ul><li>(a) Give the classification of antihypertensives.</li><li>(b) Write the mode of action and SAR of ACE inhibitors.</li></ul>	(5) (5)
13	Classify Antitubercular. Write the mechanism of action of each class of drugs.	(5+5)
14	(a) Write the mechanism of action and SAR of (i) Stating (ii) Fibrates	(5)
	<ul> <li>(i) Vite the Synthesis of :</li> <li>(i) Hydrochlorthiazide (ii) Furosemide</li> </ul>	(5)
15	<ul><li>(a) Write the mode of action, SAR and uses of penicillin.</li><li>(b) Give the synthesis of clofibrate and clonidine</li></ul>	(6) (4)
16	What is prodrug? What are the types of prodrug? Explain in detail its applications along with examples.	
17	<ul> <li>(a) Classify antiviral drugs with examples.</li> <li>(b) Write the mechanism of action of : <ul> <li>(i) loop diuretics</li> <li>(ii) Thiazide diuretics</li> </ul> </li> </ul>	(5) (5)
18	<ul> <li>(a) Classify antianginal agents with examples.</li> <li>(b) Write the synthesis and mode of action <ul> <li>(i) Ketoconazole</li> <li>(ii) Ethambutol</li> </ul> </li> </ul>	(5) (5)

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