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B. PHARM (SEM VI) THEORY EXAMINATION 2022-23 MEDICINAL CHEMISTRY III

Time: 3 Hours Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

 $10 \times 2 = 20$

- Describe the nomenclature of beta-lactam antibiotics.
- b: Give two examples of tetracycline antibiotics.
- Describe the concept of Prodrug in drug development.

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- d. Outline the synthesis of Chloramphenicol.
- e. Enlist anti-tubercular antibiotics.
- f.. Outline the synthesis for Acyclovir.
- g: Describe the synthesis of Dapsone.
- h. Define antiprotozoal agents with examples.
- Illustrate combinatorial synthesis in drug discovery.
- j. Define Molecular Docking.

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SECTION B

2. Attempt any two parts of the following:

 $2 \times 10 = 20$

- a.. Outline the classification of beta-lactam antibiotics with examples. Explain structure activity relationship for Penicillin.
- Outline classification of anti-infective agents used in urinary tract infections. Explain structure activity relationship for Quinolones and synthesis of Ciprofloxacin.
- c. Enlist and illustrate the physicochemical parameters used in QSAR.

SECTION C pharmacareerinsider.com

3. Attempt any fiveparts of the following:

 $7 \times 5 = 35$

- a. Describe the synthesis and uses of Diethylcarbamazine citrate and Mebendazole.
- b: Illustrate Solid Phase and Solution Phase Synthesis along with their applications.
- c. Outline the synthesis, and uses of Isoniazio and Nitrofurantoin.
- d. Illustrate in detail about types of Prodrugs with their applications.
- e.. Classify antiviral agents with examples and explain their mechanism of action.
- f. Illustrate the classification of Sulphonamides with synthesis of Sulfacetamide.
- g. Describe azoles as antifungal agents with suitable examples.