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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 x 2 = 20**

a. Describe the nomenclature of beta-lactam antibiotics.

b. Give two examples of tetracycline antibiotics.

c. Describe the concept of Prodrug in drug development.

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.

i. Illustrate combinatorial synthesis in drug discovery.

j. Define Molecular Docking.

SECTION B

2. Attempt any *two*parts of the following: **2 x 10 = 20**

a. Outline the classification of beta-lactam antibiotics with examples. Explain structure activity relationship for Penicillin.

b. 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

3. Attempt any *five*parts of the following: **7 x 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 Isoniazid 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.