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

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**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**
- Describe the nomenclature of beta-lactam antibiotics.
  - Give two examples of tetracycline antibiotics.
  - Describe the concept of Prodrug in drug development.
  - Outline the synthesis of Chloramphenicol.
  - Enlist anti-tubercular antibiotics. <https://pharmacyindia.co.in/>
  - Outline the synthesis for Acyclovir.
  - Describe the synthesis of Dapsone.
  - Define antiprotozoal agents with examples.
  - Illustrate combinatorial synthesis in drug discovery.
  - Define Molecular Docking.

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**SECTION B**

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- 2. Attempt any twoparts of the following: 2 x 10 = 20**
- 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.
  - Enlist and illustrate the physicochemical parameters used in QSAR.

**SECTION C**

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- 3. Attempt any fiveparts of the following: 7 x 5 = 35**
- Describe the synthesis and uses of Diethylcarbamazine citrate and Mebendazole.
  - Illustrate Solid Phase and Solution Phase Synthesis along with their applications.
  - Outline the synthesis, and uses of Isoniazid and Nitrofurantoin.
  - Illustrate in detail about types of Prodrugs with their applications. <https://pharmacyindia.co.in/>
  - Classify antiviral agents with examples and explain their mechanism of action.
  - Illustrate the classification of Sulphonamides with synthesis of Sulfacetamide.
  - Describe azoles as antifungal agents with suitable examples.