

W-2022

Seat Number

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**PANKH-25**

**BP-601T**

**Medicinal Chemistry-III**  
**(736601)**

**Total Pages : 2]**

**Time : 3 Hours**

**Max Marks : 75**

- Note :** (1) Do not write anything on question paper except Seat No.  
(2) Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.  
(3) Students should note, no supplement will be provided.  
(4) Figures to the right indicate full marks.

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1. Write the answer of the following :

- (i) What is the mutual prodrug ?
- (ii) Give the synthesis of ciprofloxacin.
- (iii) Write the structure and uses of any two penicillins.
- (iv) Give examples for Fluoroquinolones.
- (v) Give the mechanism of action of Anthelmintics.
- (vi) Give the mechanism of Beta lactam antibiotics.
- (vii) Write the structure and uses of Amantadine and Cycloserine.
- (viii) Define prodrug and enlist its types.
- (ix) Comment on combinatorial chemistry.
- (x) Give the synthesis of Acyclovir.

P.T.O.

2. Attempt any *two* of the following :

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- (i) Define and classify Antibiotics with examples.
- (ii) Classify sulphonamides and give the synthesis of sulphamethoxazole and Dapsone.
- (iii) Define QSAR and explain the methods of QSAR.

3. Attempt any *seven* out of the following :

7×5=35

- (i) Describe the applications of prodrug.
- (ii) Classify anti-malarial drugs with examples.
- (iii) Write the synthesis of Chloamphenicol and Metronidazole.
- (iv) Explain briefly about anti-protozoal agents.
- (v) Write a note on Antifungal antibiotics.
- (vi) Classify Anti-tubercular agents with examples.
- (vii) Write the various parameters of QSAR.
- (viii) Write a note on Cephalosporins.
- (ix) Write the SAR of Quinolones.