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Roll No.........................

S. No. of Question Paper   :

Unique Paper Code   :   32173909

Name of the Paper   :   Pharmaceutical Chemistry

Name of the Course   :   B.Sc. (H) Chemistry/ B.Sc. Prog.

Semester   :   III

Duration: 1.5 Hours   Maximum Marks: 38

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

2. Attempt any four questions.

3. Each question carries 9.5 marks.

1. (i) Describe the Drug Discovery and Development procedure. (4)

    (ii) What are analgesics? How do these drugs affect our body? Give an example. (4)

        (iii) Difference between antibiotics and antibacterial agents. (1.5)

2. (i) Write short note on any one of the following: (4)

(a) Antifungal drugs

(b) Pharmaceutical aids

    (ii) Describe the fermentation procedure for synthesis of streptomycin. (4)

      (iii) Difference between side effects and toxicology effects of medicine. (1.5)

3. (i) What are central nervous system agents? Give two examples with structure. (4)

    (ii) Define following terms with suitable examples: (2 x 2 = 4)

(a) Antipyretic agents

(b) Antilaprosyl drugs

      (iii) Distinguish between bacteriostatic and bactericidal agents. (1.5)
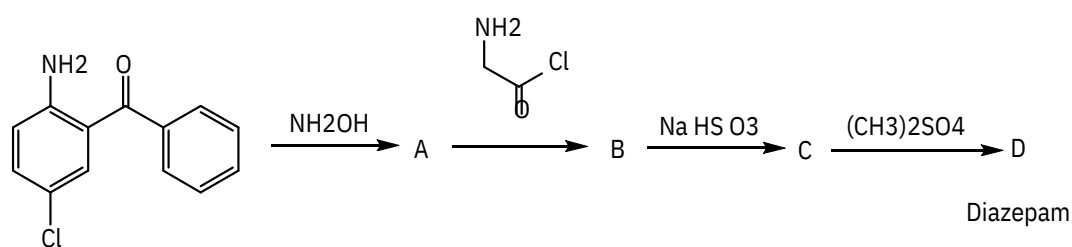
4. (i) Mention the side effects of thalidomide and ibuprofen. (4)

(ii) What are anti-inflammatory agents? How do they work? Give an example. (4)

(iii) Differentiate between drugs and poisons. (1.5)

5. (i) What is drug-receptor interaction? Explain with illustration. (4)

(ii) Match the following: (1 x 4 = 4)

Column A	Column B
Saccharomyces cerevisiae Cephalosporin	
Antiviral agent Glyceryl nitrate	
Cardiovascular drug Ethanol	
Acremonium chrysogenum Acyclovir	

(iii) Write the chemical reaction for synthesis of glyceryl trinitrate. (1.5)

6. (i) Mention the structure of the compounds A-D. (4)

(ii) Describe the fermentation synthesis procedure of vitamin C. (4)

(iii) Draw the chemical structure of cephalosporin and streptomycin. (1.5)

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