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SET II

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. (SEC)

Semester : III

Duration: 1.30 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 two questions

1. Answer the followings

(i) Differentiate between Narcotic and Non-narcotic analgesics with examples? (4)

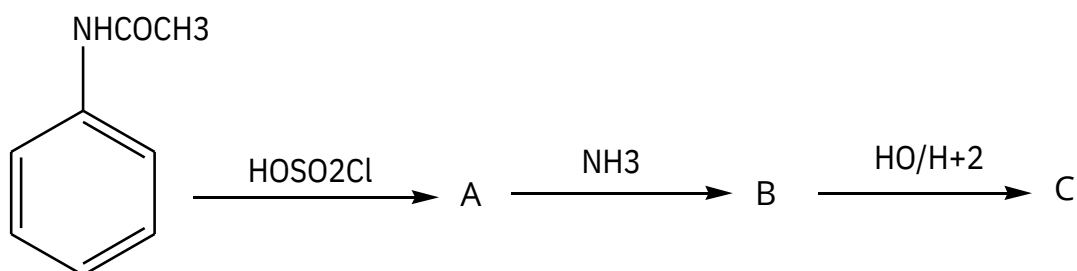
(ii) What do you understand the term 'Pharmacophore'? (3)

(iii) How gelatin and natural colours are used as pharmaceutical aids? (3)

(iv) What are the medicinal uses of phenobarbitone? Give its structure? (3)

(v) Discuss the causes of side effects of cetirizine and ibuprofen? (3)

(vi) Complete the following reaction: (3)



2 (i) Write down the laboratory preparation of aspirin with its uses and adverse effects?

(5)

Or

Give the laboratory preparation of acyclovir with its uses and adverse effects?

(ii) Discuss with suitable examples the importance of the following in relation to biological activity of drugs: (3x2)

(a) Stereoisomerism

(b) Bioisosterism

(iii) Explain Retrosynthetic approach in drug discovery. Write down retrosynthesis of paracetamol? (5)

(iv) Discuss the production of ethyl alcohol using fermentation process? (3)

3 (i) Write down short note on the followings: (3x3)

(a) Drug Discovery

(b) Hypnotics

(c) Sedative

(ii) Name of microorganism used in preparation of the following: (1x4)

(a) Ethanol (b) Lysine (c) Streptomycin (d) Citric acid

(iii) How classified the drugs and what is the role of SAR studies in drug development?

(4)

(iv) What is the meaning of 'High Therapeutic Index'? (2)

4 (i) How fermentation could be useful for the industrial production of Vit-B2? (5)

(ii) Define following terms with suitable examples: (2x3)

(a) HIV-AIDS

(b) Analgesic

- (iii) How target specificity and selectivity is a crucial factor in modern medicinal chemistry? (4)
- (iv) Differentiate between narrow-spectrum and broad-spectrum antibiotics? (4)

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