

30/11/19 M

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper ; 7552

J

Unique Paper Code : 32173909

Name of the Paper : Pharmaceutical Chemistry

Name of the Course : B.Sc. (Hons.) / B.Sc. (Prog.) :
SEC

Semester : III

Duration : 2 Hours

Maximum Marks : 37

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **three** questions in all. Question No. 1 is compulsory and carries **15** marks.
3. **All** other questions are of **11** marks each.

1. Attempt **any five** questions : (5×3=15)

- (i) What are the medicinal uses of Sulphacetamide.
Give its structure.

P.T.O.

- (ii) How is Paracetamol synthesized? Write the chemical reactions involved.
- (iii) Which class of the drug does Glyceryl trinitrate belong to? Write its structure.
- (iv) What is a pharmacophore? Give one example.
- (v) What are the medicinal uses of Acyclovir? Give its structure.
- (vi) What are anti-bacterial agents. Give one example along with its structure.

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

(a) Central Nervous System targeting drugs

(b) Antibiotic agents

(ii) What are NSAIDs? Give examples of common drugs used for the same. Briefly discuss their mode of action. (4)

(iii) Describe the drug discovery timeline for Penicillin. How can it be produced commercially using fermentation technique? (3)

3. (i) Match the following : (4)

1	Streptomycin	a	Antiviral agent
2	Ibuprofen	b	Antifungal drug
3	Sulphanethoxazole	c	Antibiotic
4	Acyclovir	d	Antipyretic agent

(ii) Give the synthesis and uses of Dapsone. (4)

(iii) What do you understand by the terms lead compound and drug toxicology? (3)

4. (i) Give the structure of the following drugs : (4)

(a) Aspirin

(b) Chloramphenicol

(c) Penicillin

(d) Diazepam

(ii) Explain the synthesis of Ethyl alcohol **OR** Vitamin C using fermentation method. (4)

- (iii) Describe drug modification and its role in modern drug development. (3)

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