

Roll.No.

24UCHET5A01

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

B.Sc.Chemistry - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - V

24UCHET5A01 - Pharmaceutical Chemistry

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Define the following terms: Pharmacophore, Pharmacopeia, Pharmacodynamics, Pharmacokinetics.
2. Explain the action of sulpha drugs.
3. Relate the structure and physiological function of thyroxin.
4. Explain how the action of a drug is influenced by its chemical structure with suitable examples.
5. Describe the analgesic action of morphine.
6. Relate the antibacterial activity of penicillin to its structure.
7. Explain the causes and remedies of hypertension and hypotension.
8. Justify the fact that enzymes and receptors are targets of drug design.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Discuss the symptoms and drugs for any two airborne diseases.
10. a. Give a detailed classification of anaesthetics, mentioning the uses and disadvantages of one anaesthetic under each category.
b. Distinguish between sedatives and hypnotics.
11. Justify the use of tulasi, neem, coriander and *Solanum triobatum* as medicinal plants.
12. a. How to predict the blood grouping based on Rh factor.
b. Discuss the causes and treatment of diabetes.
13. Give a comparative account of the different types of drug delivery system.
