

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. Physics - END SEMESTER EXAMINATIONS APRIL - 2024

SEMESTER - II

22UPHAT2002 - Chemistry For Physics II

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Illustrate Hess's law and its applications.
2. Write a note on corrosion inhibitors.
3. Differentiate Thermoplastics and thermosetting plastics.
4. Classify different types of carbohydrates.
5. Write a note on replication of DNA.
6. What are non-reducing sugars? Give example?
7. Explain the preparation of PVC? List its uses.
8. State first law of thermodynamics and the need for second law of thermodynamics.

Section C

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

9. With a neat sketch, explain carnot's cycle and calculation of efficiency of heat engine.
10. a. Explain Electrochemical corrosion.
b. What is meant by cathodic protection?
11. Explain the synthesis and applications of (i) phenol formaldehyde resin (ii) Nylon.
12. Discuss the open chain structure of Glucose.
13. What are Nucleic acids? Explain the components present in it?
