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.(PBPBT) END SEMESTER EXAMINATIONS NOVEMBER - 2023
SEMESTER - IV
20UPBAT4004 - Allied Chemistry - II

Total Duration : 2 Hrs 30 Mins. Total Marks : 60

Section B

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

1. Describe the open-chain structure of fructose.
2. Apply the classification of proteins by its biological functions.
3. Predict the functions of analgesics, antipyretics and hypnotics with suitable examples.
4. Describe the cause and treatment of AIDS.
5. Explain the preparation, properties and uses of silicones.
6. List out various photochemical reactions along with suitable examples.
7. Describe common ion effect and buffer solutions with suitable examples.
8. Determine the standard electrode potential.

Section C

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

9. Explain the preparation and properties of alpha amino acids with suitable equations.
10. a) Compute the role of local anaesthetics and general anaesthetics
    b) List out the causes and treatment methods for diabetes.
11. a) Recommend any five industrial gases along with composition and uses.
    b) Recommend any four fertilizers along with uses.
12. Apply various laws involved with photochemistry to predict photochemical equivalence and quantum yield.
13. Diagnose the functions of any two reference electrodes with neat sketch.

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