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. END SEMESTER EXAMINATIONS NOVEMBER-2022
SEMESTER - IV
20UPBAT4004 - Allied Chemistry-II

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

Section A

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

1. Explain the classification of carbohydrates.
2. Explain any five biological functions of proteins.
3. Relate antipyretics and analgesics with an example for each.
4. Illustrate the preparation and properties of urea.
5. Explain the mechanism of photosynthesis in plants.
6. Relate the characteristics of fluorescence and phosphorescence.
7. Sketch the mechanism of photosensitization with an example.
8. Determine the EMF of a standard reference electrode.

Section B

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

9. Illustrate the structure and properties of sucrose.
10. Predict the causes and medicines used for the following diseases:
    (i) Diabetes (ii) AIDS
11. Distinguish the types of fuel gases with composition and uses.
12. Classify the laws of photochemistry with an example. Relate quantum yield and abnormal quantum yield.
13. Deduce the Henderson equation and explain buffer action in biological systems.

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