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**BSCCHO 283**

**Choice Based Credit System IV Semester B.Sc. Degree Examination,  
September 2022  
(2020 – 21 and Earlier Batches)  
CHEMISTRY (Open Elective)  
Chemistry in Daily Life**

Time : 2 Hours

Max. Marks : 40

- Instructions :** 1) Write the question number and subdivisions **clearly**.  
2) Write the equations and diagrams **wherever** necessary.  
3) Answer Part – A in **first two** pages of the answer book.

**PART – A**

1. Answer **any five** of the following. **(5×2=10)**
- a) What are carbohydrates ?
  - b) What is bleaching powder ?
  - c) Why matches are called safety matches ?
  - d) What is wind power density ?
  - e) Write the principle of ocean thermal energy.
  - f) Give the applications of solar energy.

**PART – B**

Answer **any one** of the following questions, choosing **one full** question from **each** Unit. **(15×2=30)**

**Unit – I**

2. a) Explain the digestion of food in mouth and stomach. **4**
- b) Explain different methods used in food processing. **4**
- c) i) Write a note on action of soap on dirt. **4**
- ii) What are pesticides ? Name any two natural pesticides. **3**

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3. a) What are food additives and food preservatives ? **3**
- b) What are soft drinks ? Give their components and explain the toxic effects on health. **5**
- c) i) Write any four differences between soap and detergents. **4**
- ii) Explain different types of drain cleaners with an example for each type. **3**

### **Unit – II**

4. a) Explain photovoltaic devices. **4**
- b) Define the terms (i) Hydropower flexibility (ii) Hydropower digitalization. **4**
- c) i) Write any four applications of solar energy. **4**
- ii) What is food adulteration ? How do you detect smashed potato in ghee sample ? **3**
5. a) Write a note on artificial ripening of fruits. **3**
- b) How does hydropower plant works ? **5**
- c) i) Explain different types of ocean energy. **4**
- ii) Write any three applications of wind energy. **3**
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