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**BSCCHO 286**

**Choice Based Credit System IV Semester B.Sc. Degree  
Examination, September 2022  
(2021-2022 Batch Onwards)  
CHEMISTRY (Open Elective Paper)  
Food Chemistry and 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)**
- What are food additives ?
  - What are the harmful effects of food adulteration ?
  - Why matches are called safety matches ?
  - What is wind power density ?
  - What is solar energy ?
  - Write any two applications of biomass energy.

**PART – B**

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

**Unit – I**

2. a) How do you detect the presence of vanaspathi and smashed potato in ghee sample ? **4**
- b) What are soft drinks ? Explain their toxic effect on health. **4**
- c) i) Write a note on action of soap on dirt. **4**
- ii) Write a note on micronutrients. **3**

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|---|----------|
| 3. a) Explain artificial ripening of fruits.                      | <b>3</b> |
| b) Explain the chemical substances used in the food preparation.  | <b>5</b> |
| c) i) Explain the digestion of food in large and small intestine. | <b>4</b> |
| ii) Write a note on shoe polish and its chemical constituents.    | <b>3</b> |

**Unit – II**

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| 4. a) Explain the different types of transformation of biomass energy. | <b>4</b> |
| b) Explain different types of ocean energy.                            | <b>4</b> |
| c) i) Write any four applications of solar energy.                     | <b>4</b> |
| ii) Write a note on wind turbines.                                     | <b>3</b> |
| 5. a) Draw water cycle.  | <b>3</b> |
| b) How does hydropower plant work ?                                    | <b>5</b> |
| c) i) Explain photovoltaic devices.                                    | <b>4</b> |
| ii) Write any three applications of biomass.                           | <b>3</b> |
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