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Barasat, Kolkata -700125

## BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – Dip.CE-2022

Course Name – Environment & Sustainable Development for Human Survival

Course Code - DCEOE601A

( Semester VI )

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Select the correct definition of sustainable development.
  - a) Economic growth without concern for the environment
  - b) Development that meets present needs without compromising future generations
  - c) Exploiting resources for maximum economic gain
  - d) Industrialization without limits
- (ii) Select the key environmental issue caused by excessive greenhouse gases.
  - a) Ozone depletion
  - b) Climate change
  - c) Soil erosion
  - d) Deforestation
- (iii) Choose the best example of sustainable resource use.
  - a) Overfishing in oceans
  - b) Clear-cutting forests for urban expansion
  - c) Harvesting solar energy
  - d) Burning coal for electricity
- (iv) Choose the best solution to reduce social insecurity.
  - a) Sustainable economic policies
  - b) Overexploitation of natural resources
  - c) Ignoring poverty and inequality
  - d) Rapid deforestation
- (v) Select the organization responsible for the Sustainable Development Goals (SDGs).
  - a) World Bank
  - b) United Nations
  - c) NATO
  - d) IMF
- (vi) Select the correct statement about equity in sustainability.
  - a) It only focuses on economic growth
  - b) It ensures fair distribution of resources
  - c) It ignores developing nations
  - d) It limits economic progress
- (vii) Choose the most effective way to address transboundary pollution.
  - a) National-level regulations
  - b) International cooperation
  - c) Local community actions
  - d) Ignoring the issue
- (viii) Choose the key focus of the Montreal Protocol.
  - a) Reducing CO<sub>2</sub> emissions
  - b) Phasing out ozone-depleting substances
  - c) Managing water resources
  - d) Reducing soil erosion

- (ix) Select the key factor for socio-economic sustainable development.
- |                               |                  |
|-------------------------------|------------------|
| a) Economic growth            | b) Social equity |
| c) Environmental conservation | d) All of these  |
- (x) Select the economic strategy that supports sustainability.
- |                       |                            |
|-----------------------|----------------------------|
| a) Green economy      | b) Rapid industrialization |
| c) Resource depletion | d) Overfishing             |
- (xi) Choose the most effective policy for sustainable development in developing countries.
- |                                       |                                |
|---------------------------------------|--------------------------------|
| a) International aid and fair trade   | b) Expanding coal industries   |
| c) Reducing environmental regulations | d) Ignoring climate agreements |
- (xii) Choose the most important factor in achieving sustainability globally.
- |   |                                     |
|---|-------------------------------------|
| a) Integrated international cooperation | b) Increasing fossil fuel subsidies |
| c) Expanding industrial waste           | d) Ignoring climate change policies |
- (xiii) Select the key requirement for effective data analytics in sustainability.
- |                             |                                  |
|-----------------------------|----------------------------------|
| a) Lack of transparency     | b) Reliable and updated datasets |
| c) Ignoring historical data | d) Only using qualitative data   |
- (xiv) Select the most important aspect of multi-criteria decision-making.
- |                                       |  |
|---------------------------------------|--|
| a) Considering only financial factors | b) Balancing environmental, economic, and social factors |
| c) Ignoring stakeholder participation | d) Delaying decision-making                              |
- (xv) Choose the best way to ensure sustainability in village resources.
- |                               |                               |
|-------------------------------|-------------------------------|
| a) Efficient water management | b) Overuse of land            |
| c) Unregulated deforestation  | d) Expanding chemical farming |

**Group-B**

(Short Answer Type Questions)

3 x 5=15

2. Compare the strength behavior of riveted and welded joints under axial loading. (3)
3. Explain the key components of sustainability. (3)
4. Differentiate between socio-economic policies and environmental policies for sustainable development. (3)
5. Explain the relationship between demographic dynamics and sustainability. (3)
6. Write about the significance of demographic studies in sustainability planning. (3)

OR

Write about the importance of international cooperation in global sustainability efforts. (3)

**Group-C**

(Long Answer Type Questions)

5 x 6=30

7. Write about the necessity of balancing economic growth with environmental protection. (5)
8. Justify the role of rural traditions in sustainability planning. (5)
9. Explain the role of public awareness in rural sustainable development. (5)
10. Differentiate between short-term and long-term effects of greenhouse gas emissions. (5)
11. Distinguish between economic sustainability and environmental sustainability. (5)
12. Justify the role of operational guidelines in enforcing sustainable practices. (5)

OR

Justify the necessity of transboundary cooperation for environmental conservation. (5)

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