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FIRST YEAR (Biotech/Blended/Comp. Sci./Data Sci./General//B.Voc)

24VEC11501: Environmental Sustainability: Principles and Values

(Semester I)

Program: B.Sc

Program Specific: (Biotech/Blended/Comp. Sci./Data Sci./General//B.Voc)

Course Type: VEC

Paper: I

Credits: 2

Time: 2 Hours

Max. Marks: 30

SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Attempt ANY FIVE of the following:

[5 X 2 = 10]

- a) What is environment sustainability & write its scope and importance?
- b) What is Ecosystem & explain its component.
- c) Differentiate between ex-situ and in-situ conservation.
- d) Define Urban Farming.
- e) What are the greenhouse gases and their role in climate change?
- f) What are renewable & non-renewable energy resources?
- g) What is Kyoto Protocol?

Q2) Attempt ANY THREE of the following:

[3 X 4 = 12]

- a) What is Chipko Movement?
- b) Explain the concept of circular economy in detail.
- c) Describe various strategies developed to mitigate climate change.
- d) What is convention on biological diversity (CBD)?
- e) Comment on Global warming.
- f) How do anthropocentrism, biocentrism, and ecocentrism differ in their perspectives on environmental ethics?

Q3) Attempt ANY TWO of the following:

[2 X 4 = 08]

- a) How do deforestation, urbanization, and agriculture impact biodiversity?
- b) Explain various environmental regulations to control emission and waste management.
- c) What is Biodiversity? Explain various types of biodiversity with suitable example.
- d) What are the different types of aquatic ecosystem and what component do they include?
