

B.Sc. (Part-III) (CBCS Pattern) Semester-V
**USENVDST10 DSE Paper-X - Environmental Science-II - Environment and
Innovations**

P. Pages : 2

Time : Three Hours



GUG/S/25/13102

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate the answers with suitable diagram and examples.

1. Discuss barriers and drivers of eco innovations. Give significance of eco-innovations. **10**

OR

a) Explain types of eco innovations. **5**

b) Describe waves of innovations. **5**

2. Explain free public transport and floating house in rising sea as physical innovations. **10**

OR

a) Write about second-generation biofuel for commercial flights. **5**

b) Explain how water is extracted from the atmosphere in hilly terrain. **5**

3. Discuss how value addition is carried for agriculture product. **10**

OR

a) Describe ecological principles of pest management. **5**

b) Explain how conservation of olive green turtles is done in Orissa. **5**

4. Discuss water resource management in Bhandara and Hiwre Bazar. **10**

OR

a) Explain how electricity is generated from rice husk. **5**

b) Describe low-cost equipment for energy production at Vigyan Ashram. **5**

5. Answer in brief **any ten**. **10**

a) Define environmental innovations.

b) Write goals of environmental innovation.

c) Give benefits of eco-innovations.

- d) What are eco-surfactants?
- e) Write about biodegradable ink.
- f) Give natural alternative to plastic bottles.
- g) Write briefly about Beej Bachao Andolan.
- h) What is magnetized fly ash?
- i) Write example of natural resource conservation.
- j) Write full form of TERI.
- k) Where Centre of Science for village is located?
- l) Write about Bare Foot College.
