

B.Sc. (Part-I) (CBCS Pattern) Semester-II
USENVT04 - Environmental Science Paper-II - Applied Ecology

P. Pages : 2

Time : Three Hours



GUG/W/24/11581

Max. Marks : 50

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

1. Discuss major atmospheric services w.r.t. combustion of fuel, energy and power. 10

OR

a) Discuss provisioning services as natural services. 5

b) Briefly discuss food production w.r.t. agriculture as a natural service. 5

2. Explain in-situ and ex-situ methods for conservation of wildlife. 10

OR

a) What are flagship species? Elaborate methods for conservation of flagship species. 5

b) Discuss the conservation of forest by means of reforestation and afforestation. 5

3. Explain how constructed wetland can be used for treatment of wastewater. 10

OR

a) Describe composting ecosystem for organic solid waste management. 5

b) Write an informative note on Ecological Engineering. 5

4. Describe how management of invasive species and erosion control can be achieved. 10

OR

a) Discuss biofiltration and indoor air quality. 5

b) How restoration and sustained biodiversity can be achieved by ecological application. 5

5. Answer in brief any ten. 10

a) Enlist types of ecosystem services.

b) Enlist any three threats to ecosystem services.

- c) Define natural services.
- d) State examples of keystone species.
- e) Give the names of hotspot of biodiversity in India.
- f) Give full form of JFM.
- g) What is sanitary landfill?
- h) What do you mean by energy signature?
- i) Name the plants used in constructed wetlands.
- j) Give examples of invasive species.
- k) What is ecological nanotechnology?
- l) Define ecological footprint.
