

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

P. Pages : 1

Time : Three Hours



GUG/S/23/11581

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) Highlight character of ecosystem services. 5
b) Briefly discuss food production as a natural service. 5
2. Explain ex-situ methods for conservation of wildlife and biodiversity. 10
OR
- a) Describe methods for conservation of forest. w.r.t. agro forestry. 5
b) What are flagship species? Elaborate on the methods for conservation of tiger. 5
3. Explain how constructed wetland can be used for treatment of wastewater. 10
OR
- a) Write an informative note on Ecological Engineering. 5
b) Explain composting ecosystems. 5
4. Describe how management of invasive species and erosion control can be managed. 10
OR
- a) Explain biofiltration to improve indoor air quality. 5
b) Explain ecological applications in conservation and restoration of biodiversity. 5
5. Answer in 2-3 sentences **any ten**. 10
- a) Enlist types of ecosystem services.
b) What is aquaculture?
c) How communication and sound is associated with atmosphere?
d) Give full form of JFM.
e) Who prepares Red Data Book?
f) Give examples of biodiversity hotspots in India.
g) State essential aspects for design of a new ecosystem.
h) Name vegetations used in constructed wetland.
i) Define sanitary landfill.
j) What is watershed?
k) How ecological footprints can be reduced?
l) What is ecological nanotechnology?
