

B.Sc. (Part-I) (CBCS Pattern) Semester-II
USENV T04 - Environmental Science Paper-II - Applied Ecology

P. Pages : 1

Time : Three Hours



GUG/S/25/11581

Max. Marks : 50

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

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| 1. | Explain major atmospheric services as a natural service. | 10 |
| | OR | |
| | a) Discuss provisioning services as natural services. | 5 |
| | b) Write an explanatory note on crop and livestock production. | 5 |
| 2. | Explain in – situ and ex-situ methods for conservation of wildlife. | 10 |
| | OR | |
| | a) Describe conservation of forest with respect to afforestation. | 5 |
| | b) Write informative note on wildlife census. | 5 |
| 3. | Explain constructed wetlands for wastewater treatment. | 10 |
| | OR | |
| | a) Describe composting ecosystem for organic solid waste management. | 5 |
| | b) Discuss sanitary landfill as an ecosystem. | 5 |
| 4. | Explain how invasive species and erosion control can be carried out. | 10 |
| | OR | |
| | a) Discuss how indoor air quality is maintained. | 5 |
| | b) Explain ecological applications at global and regional scales. | 5 |
| 5. | Answer in brief any ten. | 10 |
| | a) Define natural services. | |
| | b) State any three threats to ecosystem services. | |
| | c) What is climate tourism? | |
| | d) Define keystone species. | |
| | e) Give the names of hotspot of biodiversity in India. | |
| | f) Give full form of JFM. | |
| | g) Which gases are emitted from sanitary landfill? | |
| | h) What is composting ecosystem? | |
| | i) Name the plants used in constructed wetlands. | |
| | j) Give examples of invasive species. | |
| | k) Ecological architecture is associated with which field? | |
| | l) What is ecological footprint? | |
