

B.Sc. (Part-III) (CBCS Pattern) Semester-V
USENV DST-09 - Environmental Science Paper-I - Environmental Engineering

P. Pages : 1

Time : Three Hours



GUG/W/24/13101

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. What are the objectives of water sampling? Discuss different types of water sample. **10**
- OR**
- a) Describe soil sampling by quartering method. **5**
b) Describe procedure for particulate matter sampling in stack sampling. **5**
2. Describe construction and working of UV-Visible spectrophotometer. **10**
- OR**
- a) Write the application of Gas chromatography in environmental analysis. **5**
b) Write note on analytical methods w.r.t. titrimetry. **5**
3. Describe operational procedure of grit chamber and oil and grease trap. **10**
- OR**
- a) Describe operational problems of fabrics filters. **5**
b) Describe operation and maintenance of aerators and pumps. **5**
4. State principle and components of environmental management. **10**
- OR**
- a) Explain process of decision making. **5**
b) Write note on Corporate social responsibility. **5**
5. Answer in brief **any ten**. **10**
- a) Name device used for noise sampling.
b) Pitot tube is a part of which instrument?
c) State the NAAQS w.r.t. PM_{10} .
d) Which lamps are used in double beam spectrophotometer?
e) What AAS stands for?
f) What are the different types of error?
g) How sludge age is determined?
h) Give full form of ESP.
i) Name the different wastewater treatment units.
j) What is rationality in decision making?
k) What CSR stands for?
l) List out the steps in planning.
