

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

P. Pages : 1

Time : Three Hours



**GUG/S/25/13101**

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. Write objectives of water sampling. Add brief note on types of water samples. 10
- OR**
- a) State site selection criteria for ambient air sampling. 5
- b) Write a short note on solid waste sampling. 5
2. Describe the components of Flame photometer. Give its application in Environmental analysis. 10
- OR**
- a) State nature and importance of errors in environmental measurements. 5
- b) Discuss the principle of Spectrophotometric method in environmental analysis. 5
3. Describe maintenance procedure for screen, grit chamber. 10
- OR**
- a) Discuss maintenance of aerators and pumps. 5
- b) Explain maintenance procedure for electrostatic precipitators. 5
4. Explain objectives and components of environmental management. 10
- OR**
- a) State nature and structure of planning in Corporate Management. 5
- b) Discuss the Process of decision making in Environmental Settings. 5
5. Answer in brief (**any ten**). 10
- a) State the application of High-Volume Sampler.
- b) Enlist the devices used to collect water sample.
- c) What are the limits of noise level prescribed by NAAQS for residential area?
- d) State the principal of Gravimetry.
- e) Enlist the components of atomic absorption spectrophotometer.
- f) What do you mean by mode?
- g) State the significance of culture transfer in aeration tank.
- h) How do you determine sludge age?
- i) For which purpose 'agitator' is used in waste water treatment?
- j) What do you mean by corporate social responsibility?
- k) State the steps in planning.
- l) Give concept of principle.

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