

M.Sc. - I (Environmental Science) (NEP Pattern) Semester-II
PMENVT06 - Paper-VI : Environmental Sampling and Analysis

P. Pages : 1

Time : Three Hours



GUG/S/25/15381

Max. Marks : 80

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

1. Describe site selection criteria for ambient and stack sampling. **16**

OR

- a) Explain adsorption method for collection of gaseous samples. **8**
b) Describe dust fall jar method for particulate sampling. **8**

2. Explain methods of analysis of hardness and alkalinity in water sample. **16**

OR

- a) Describe types of water samples. **8**
b) Give site selection criteria for river and lake. **8**

3. Discuss soil analysis parameters w.r.t. bulk density and water holding capacity. **16**

OR

- a) Explain procedure for soil sampling. **8**
b) Describe how preparation of soil sample is done for various analysis. **8**

4. Discuss methodology of noise level measurement. Explain site identification criteria of noise sampling. **16**

OR

- a) Explain effects of meteorological parameters on noise propagation. **8**
b) Write ambient air standards w.r.t. noise in India. **8**

- 5.** a) Describe absorption method for collection of gaseous samples. **4**
b) Explain how preservation of water samples are carried out during water sampling. **4**
c) Write method of analysis of soil pH. **4**
d) Explain the decibel scale. **4**
