

EVS-07 / PSENV T05 - Paper-V : Environmental Sampling and Analysis

P. Pages : 1

GUG/S/18/5746

Time : Three Hours



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 method for sampling and analysis of SO₂ and NOX from ambient air. 16

OR

a) Describe site selection criteria for stack sampling. 8

b) Explain in brief method for collection of gaseous samples. 8

2. Describe site selection criteria for river water sampling. 16

OR

a) Describe types of water sample. 8

b) How preservation of water sample for analysis of different parameters is carried out? 8

3. State need of soil survey. Describe types of soil survey and methods to carry it. 16

OR

a) How soil sample is prepared for various analysis? 8

b) Describe method for collection of soil sample. How soil sample is preserved? 8

4. Discuss site selection criteria for noise sampling. Describe methodology of noise level measurement. What is Ln, Ld and Ldn? 16

OR

a) Describe effects of meteorological parameters on noise propagation. 8

b) State nature of Sound. How absorption of sound in air occurs? 8

5. a) Briefly explain sampling and analysis of hydrocarbons. 4

b) How flow measurement of a water body is carried out? 4

c) Describe method for bulk density measurement of soil. 4

d) Give an account on firecrackers and noise. 4
