

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

P. Pages : 1

Time : Three Hours



GUG/W/23/13101

Max. Marks : 50

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

1. Discuss the devices used to collect water sample. 10
OR
a) Describe soil sampling by quartering method. 5
b) Discuss various types of water samples. 5
2. Describe construction and working of UV-Visible spectrophotometer. 10
OR
a) Discuss flame photometer with a neat sketch. 5
b) Write note on analytical methods w.r.t gravimetry. 5
3. Describe operational procedure of screen and oil and grease trap. 10
OR
a) Describe operational troubles of sludge drying bed. 5
b) Describe operation and maintenance of aerators and pumps. 5
4. State principle and components of environmental management. 10
OR
a) Explain need for management principles. 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. PM₁₀.
d) What is Titrimetry?
e) What AAS stands for?
f) What is mean?
g) What is the function of equalization tank?
h) What is ESP stands for?
i) Name the different wastewater treatment units.
j) State objective of environmental management.
k) What CSR stands for?
l) What is meaning of planning?
