

U.G. 5th Semester Examination - 2020

ENVIRONMENTAL SCIENCE

[HONOURS]

Course Code : ENVS(H)CC-P-11/PR

[PRACTICAL]

(Environmental Biotechnology)

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

Answer **any two** of the following : 10×2=20

1. Write down the procedure for the isolation and characterization of bacteria from a soil sample. State the Gram staining methodology applied to the bacteria isolated from the sample. 5+5=10
2. Define toxicity. Explain the principle and procedure of bioassay of toxic compounds with the help of seed germination test. 2+8=10
3. Explain the principle and procedure of chlorophyll estimation. Discuss the significance of total chlorophyll estimation as a bioindicator of pollution. 7+3=10

4. How will you differentiate between glucose and sucrose samples? What do you mean by reducing sugar? Explain in brief the methodology of protein estimation from plant leaves. 3+2+5=10
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