M.Sc-II Botany Semester-IV,
Paper-III, 13/06/2023

Time: 2 .5 hrs **Max. Marks: 60**

Instructions: 1. all questions are compulsory.
2. Draw neat and labeled diagram wherever necessary.
3. Figures to the right indicate full marks.

Q.1. Define Biosorption .Explain the process and application of algae and fungi in Biosorption of pollutants. (12)

OR

Q.1.Describe the process of biogas production from the food waste like flour and molasses. (12)

Q.2.What is TRIPS? Add a note on the standards to protect patents. (12)

OR

Q. 2. Describe the objectives and concept of protecting traditional knowledge citing examples (12)

Q.3. what is Nanotechnology? Give applications of Nanotechnology in cosmetics and environmental management. (12)

OR

Q.3. Explain in detail green synthesis of nanomaterials using microbial system. (12)

Q4. What is food spoilage? Enlist various factors responsible for food spoilage. (12)

OR

Q.4. Explain in detail technique of ELISA used to detect microorganisms in food. (12)

Q.5. Attempt any four from the following. (12)

a. Ethanol from biomass
b. Risk of GMO
c. Objectives of IPR
d. Properties of nanomaterials
e. Radioimmunoassay
f. DNA probes

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