

Sessional Examination, 2022
B.Sc. 6th Semester (Regular)
Subject: Botany
Paper: BOT-RE-6016 (Analytical Techniques in Plant Sciences)
Time: 1 hr **Full marks: 20**

1. Answer the following (any five) 1×5=5
- a) What is the full form of FISH?
 - b) Write one application of fluorescence microscopy?
 - c) What do you mean by samples?
 - d) What are the different types of samples?
 - e) Write the full form of SDS-PAGE?
 - f) Write one use of ultracentrifugation.
2. Answer the following (any five) 2×5=10
- a) Name different types of data representation?
 - b) What is Electrophoresis? Name its types.
 - c) Explain Mass Spectrometry?
 - d) Write about the uses of radioisotopes in biological research.
 - e) Mention advantages and disadvantages of Ion-exchange chromatography.
 - f) Write the principle of Ion-exchange chromatography.
3. Write short note on (any one) 5×1=5
- a) Chi-square test.
 - b) Centrifugation.
 - c) Chromosome banding.