

QP Code: D133771		Total Pages: 1	Name:
			Register No.
THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025			
(CUFYUGP)			
BOT3CJ202 / BOT3MN200 PLANT ANATOMY & ANALYTICAL TECHNIQUES			
2024 Admission onwards			
Maximum Time :2 Hours			Maximum Marks :70
Section A			
All Questions can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)			
1	Write a notes on parenchyma tissue.		
2	What is meant by stomatal diversity?		
3	Point out the position of abnormal cambium		
4	What are the defects cross grain in wood?		
5	What is the common difference between acids and bases.		
6	Find the preparation and use of buffers in biological studies.		
7	State the Principle of TEM.		
8	Note the technique of Ultracentrifugation.		
9	Find the technique of Chromatography.		
10	What is the process of using centrifugation?		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)			
11	Discuss about the anatomical complexity in organization of root apex.		
12	What is complex tissue? Mention its types.		
13	Identify the secondary thickening in dicot root.		
14	What are the features of identification of various wood?		
15	Describe the applications of Light microscopy.		
16	Analyse the working principle and applications Visible spectroscopy.		
17	Give the applications of Gas Chromatography.		
18	Classify the types of centrifugation.		
Section C			
Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)			
19	Write the working principle and applications of Fluorescent spectroscopy.		
20	Elucidate the basic principle and applications of Mass spectroscopy in plant science.		