

M.Sc.(Biotechnology) (CBCS Pattern) Semester - I
PSBIT103 - Paper-III : Biophysical Technique

P. Pages : 1

Time : Three Hours



GUG/S/23/11148

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labelled diagrams wherever necessary serial.

1. Explain the concept and principles of chromatography? Discuss gel filtration chromatography? 16

OR

Describe the concept and principles of electrophoresis? Discuss paper electrophoresis?

2. Describe the basic principles and application of density gradient centrifugation. 16

OR

Explain in detail about types of centrifuge.

3. Explain Principle, working and application of Infrared spectrophotometry. 16

OR

Discuss in detail about Nuclear magnetic Resonance.

4. Describe Measurement of radioactivity by Geiger-Muller counter? 16

OR

Explain in details radioactivity?

5. a) Describe in brief about HPLC. 4
b) Explain density gradient centrifugation and applications? 4
c) Explain Raman spectrophotometry. 4
d) Describe liquid scintillation counter? 4
