

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**
