

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

P. Pages : 1

Time : Three Hours



**GUG/W/23/11148**

Max. Marks : 80

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- Notes : 1. All questions are compulsory & carry equal marks.  
2. Draw diagrams wherever necessary.

1. Describe paper chromatography in detail. **16**

**OR**

Give detail account on SDS-PAGE electrophoresis.

2. Discuss about various types of centrifuge. **16**

**OR**

Give detail account on density gradient centrifugation and its applications.

3. Describe UV-Visible spectrophotometry in detail. **16**

**OR**

a) Give the information about fluorescence spectrophotometry. **8**

b) Discuss about NMR & its applications. **8**

4. Discuss the measurement of radioactivity by Geiger-Muller counter method. **16**

**OR**

Give the information about isotopic tracer technique with its advantages and limitations.

5. Write note on:

a) Give the information about HPLC. **4**

b) Sedimentation coefficient. **4**

c) Raman spectrophotometry. **4**

d) Radioactive decay. **4**

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