

M.Sc.(Microbiology) Second Semester Old
MB2-T005 - Advance Techniques in Microbiology Paper - I

P. Pages : 1

Time : Three Hours



GUG/W/18/2234

Max. Marks : 80

Notes : 1. All the questions are compulsory and carry equal marks.

1. Describe the determination of molecular weight of macromolecules by centrifugation. **16**

OR

Describe the followings.

a) Determination of size of macromolecule by light scattering. **8**

b) Determination of shape of macromolecule by viscosity. **8**

2. Describe Immune electrophoresis with its applications. **16**

OR

Describe two dimensional gel electrophoresis with its applications. **16**

3. Describe SEM with its construction and working mechanism. **16**

OR

Write note on followings.

a) Cryo Electron microscopy. **8**

b) Confocal microscopy. **8**

4. Describe NMR and its biological importance. **16**

OR

Write note on followings.

a) Radioimmunoassay. **8**

b) Southern blotting. **8**

5. Write short note on followings.

a) Molecular weight determination of macromolecule by diffusion sedimentation. **4**

b) SDS-PAGE **4**

c) Applications of Fluorescent microscopy **4**

d) Northern blotting. **4**
