

M.Sc.(Botany) (CBCS Pattern) Semester - II
PSCBOTT07 - Paper-VII : Cell and Molecular Biology-I

P. Pages : 1

Time : Three Hours



GUG/S/23/11197

Max. Marks : 80

-
1. Describe the structure of plasmodesmata? Explain the movement of molecules with special reference to gap junction? **10**

OR

Write notes on:

- a) Aquaporins. **8**
b) Cell wall biogenesis & cell differentiation. **8**
2. Describe ultrastructure of Golgi complex. Add note on its functions. **16**

OR

Write notes on:

- a) Organization and role of microtubules. **8**
b) Ultra-structure and function of lysosomes. **8**
3. Explain the process of DNA replication in Eukaryotic cells. **16**

OR

Write notes on:

- a) DNA Damage and repair system. **8**
b) Z form of DNA. **8**
4. Describe the Passive & Active plant-defence mechanism in plant. **16**

OR

Write notes on:

- a) PR Protein and R-gene. **8**
b) Production of ROS. **8**
5. Write short notes on:
- a) Ion Channel. **4**
b) Ultra structure of peroxisomes. **4**
c) DNA replication Proteins. **4**
d) HR and SAR. **4**
