

PSDBOTT11-2 - DSE-I-Paper-XI : Molecular Biology and Plant Biotechnology-I

P. Pages : 1

Time : Three Hours



GUG/S/23/11245

Max. Marks : 80

1. Describe DNA replication in Prokaryotic organism. **16**

OR

Write on:

a) Factors responsible for DNA damage. **8**

b) DNA repair system. **8**

2. Write an essay on DNA manipulation enzymes. **16**

OR

Write on:

a) Recombinant DNA libraries. **8**

b) Nucleic Acid Hybridization. **8**

3. Define PCR. Explain principle and types of PCR. **16**

OR

Write on:

a) Expression vector and its characteristics. **8**

b) Transformation and transfection. **8**

4. Define Genomics. Describe microarray technology & give its applications. **16**

OR

Write on:

a) Dot Plots. **8**

b) Sequence similarity. **8**

5. Write short notes on:-

a) DNA replication proteins. **4**

b) Western Blotting. **4**

c) Ligation **4**

d) Proteomics. **4**
