

BOT-15.1 - Paper-XV: Molecular Biology & Plant Biotechnology (Special-I)

P. Pages : 1

Time : Three Hours



GUG/S/19/2361

Max. Marks : 80

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

1. Describe comparative account of DNA replication in Eukaryote and Prokaryote. **16**
OR
Write notes on.
a) Protein synthesis Initiation process. **8**
b) Factors for DNA damage. **8**
2. Describe detail method of gene isolation. **16**
OR
Write notes on.
a) C-DNA library. **8**
b) Hybridization of DNA. **8**
3. Describe PCR technique and its application in molecular biology. **16**
OR
Write notes on.
a) Ligation. **8**
b) Transfection. **8**
4. Define genomics and explain mechanism of genome analysis. **16**
OR
Write notes on.
a) Distance – Matrix Alignment of proteins. **8**
b) Application of hydrophobicity in protein stability. **8**
5. Write short notes on.
a) Termination of protein synthesis. **4**
b) Antibodies as a probe for protein. **4**
c) Plasmid and Cosmid. **4**
d) Gene Mutation. **4**
