

M.Sc.(Biotechnology) CBCS Pattern Semester-III
PSBIT111 - Paper-III : Genetic Engineering

P. Pages : 1

Time : Three Hours



GUG/W/23/11238

Max. Marks : 80

1. Describe the isolation of DNA from plant, animal and Microbes. **16**

OR

Write its details about DNA manipulation enzyme.

2. Discuss in details about yeast vector plasmid. **16**

OR

Write notes on-

a) Ligation techniques. **8**

b) Linkers and adaptors. **8**

3. Write in detail about genomic library & C-DNA library. **16**

OR

Write notes on-

a) Sanger's dideoxy nucleotide method. **8**

b) Maxam-Gilbert method. **8**

4. Describe transformation in detail- **16**

OR

Write notes on-

a) Liposomes and Microinjection. **8**

b) Biolistic gun method. **8**

5. Write in brief- **4**

a) Restriction enzymes. **4**

b) dA:dT joints. **4**

c) Northern blotting. **4**

d) Coprecipitation. **4**
