

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
