

M.Sc. (Microbiology) (CBCS Pattern) Third Semester
PSMBT-10 - Recombinant DNA Technology Paper-II

P. Pages : 1

Time : Three Hours



GUG/W/18/11292

Max. Marks : 80

Notes : 1. All questions are compulsory and carry equal marks.

1. Describe different types of restriction endonucleases. 16

OR

Describe the followings.

a) Ligation. 8

b) DNA polymerase. 8

2. Discuss different types of cloning vectors. 16

OR

Write note on followings.

a) Genomic library. 8

b) cDNA library. 8

3. Describe the production of Insulin by rDNA technology. 16

OR

Describe the followings.

a) Artificial chromosome. 8

b) Genetically modified organisms. 8

4. Describe the principle and procedure of PCR. 16

OR

Write note on followings.

a) Dideoxy method of DNA sequencing. 8

b) Automated sequencing. 8

5. Write short note on followings.

a) Reverse transcriptase. 4

b) Cosmids. 4

c) Promoter probe vectors. 4

d) Immune PCR. 4
