

M.Sc. (Biotechnology) (CBCS Pattern) Third Semester Old+CBCS
PSBIT112 / BT3-T012 - Applied Biotechnology Paper-IV

P. Pages : 1

Time : Three Hours



GUG/W/18/11239

Max. Marks : 80

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

1. Describe the processing of Recombinant proteins by refolding and stabilization. **16**

OR

Describe the followings.

- a) Modification of metal cofactor. **8**
b) Polymerase chain reaction. **8**

2. Describe the In-vivo and Ex-vivo gene delivery with example. **16**

OR

Write note on following.

- a) Production of Monoclonal antibodies. **8**
b) Gene therapy of human diseases. **8**

3. Describe the production of Vit-C by r-DNA technology. **16**

OR

Describe the production of followings by r-DNA technology.

- a) Polio vaccine **8**
b) Penicillin **8**

4. Describe the production of secondary metabolite by phenyl propanoid pathway. **16**

OR

Write note on followings.

- a) Therapeutic proteins. **8**
b) Green house technology. **8**

5. Describe the followings in brief.

- a) Salient features of expression vectors. **4**
b) Gene correction. **4**
c) Insulin production by rDNA technology. **4**
d) Application of nanotechnology in medicine. **4**
