

M.Sc.(Biotechnology) (CBCS Pattern) Semester - III
PSBIT112 - Paper-IV : Applied Biotechnology

P. Pages : 1

Time : Three Hours



GUG/S/23/11239

Max. Marks : 80

1. Describe in detail refolding and stabilization of recombinant proteins. **16**

OR

Explain amplification of DNA by PCR.

2. What is gene therapy? Describe somatic and germline. **16**

OR

Explain production of monoclonal antibodies by phage display technique.

3. Explain production of vaccine with reference to rDNA technology. **16**

OR

Describe production of alcohol by using rDNA technology.

4. What are plants secondary metabolites? Explain industrial enzyme and biodegradable plastics. **16**

OR

a) Write an essay on nanobiotechnology and its application in medical industry. **8**

b) Give principle and application of green house technology. **8**

5. a) What are expression vectors. **4**

b) Comment on advantages and disadvantages of adenovirus in gene therapy. **4**

c) Give brief notes on insulin with reference to rDNA technology. **4**

d) Write in brief about PHB. **4**
