

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
