

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

P. Pages : 1

Time : Three Hours



GUG/W/22/11239

Max. Marks : 80

- Notes : 1. All questions are compulsory and carries equal marks.
2. Draw the diagram wherever it is necessary.

1. Describe the processing of recombinant protein in detail **16**
OR
a) Give the brief account on expression of foreign genes in insect. **8**
b) Write a note on changing protease activity in protein engineering. **8**
2. Describe in detail germline gene therapy. **16**
OR
a) Write a note on gene correction. **8**
b) Explain the retrovirus gene transfer system. **8**
3. Describe the role of r DNA technology in production of insulin. **16**
OR
a) Explain in brief production of polio vaccine by r DNA technology. **8**
b) Explain the role of r DNA technology in production of penicillin. **8**
4. Explain the plant secondary metabolites add a note on shikimate pathway. **16**
OR
a) What are therapeutic proteins? Explain in brief. **8**
b) Give the principal and application of green house technology. **8**
5. Write a short note on-
a) Salient features of expression vector. **4**
b) Gene Silencing. **4**
c) Role of r DNA technology in oxytocin. **4**
d) Lysosomal enzyme. **4**
