DF-1511

M. Sc. (Microbiology) (Sem. - III) Examination
March / April – 2016
MB 303 : Industrial Microbiology
(New Course)

Time : Hours] [Total Marks : 70

Instruction :

1 Explain in brief any two:
   a) Discuss biosynthesis and regulation of cephalosporin production.
   b) Discuss surface fermentation method of citric acid production.
   c) Briefly describe microbial production of amylase.

2 Answer any two:
   a) Give detail account on microbial production and different types of
      biosurfactants.
   b) Write a note on use of yeast in pigment production.
   c) Discuss separation and purification of PHA.

3 Answer the following any two:
   a) Write a note on production of yogurt.
   b) Discuss preparation of soy sauce and role of microbes in it.
   c) Briefly describe steps of beer production.

4 Write short notes on any two:
   a) Explain use of biocatalyst in non conventional media.
   b) Discuss immobilization of biocatalyst by lattice entrapment.
   c) What is biotransformation? State application of immobilized
      biocatalyst.

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