DMM-1805
M. Sc. (Microbiology) (Sem. IV) Examination
March / April - 2016
MB-403 : Economic Microbiology
(Old Course)

Time : 3 Hours] [Total Marks : 70

Instructions :

(1) Fill up strictly the details of signs on your answer book.

Name of the Examination:
M. Sc. (MICROBIOLOGY) (SEM. 4)

Name of the Subject:
MB-403 : ECONOMIC MICROBIOLOGY (OLD)

Seat No.:

Student's Signature

(2) Figures to the right indicate full marks of the question.

(3) Draw neat and labeled diagrams whenever necessary.

1 Answer the following : (any two) 18

(1) Discuss in detail Hybridoma technology with its application.

(2) Discuss the importance of selection of biocatalyst for biotransformations.

(3) Give a detail account of commercial microbial production of Nitrile hydratase.

2 Answer the following : (any two) 18

(1) Discuss the factors affecting wine production.

(2) Enlist the types of cheese. Give detail account of any one.

(3) Elaborate on fermented soy products.
3. Answer the following: (any two)

(1) Discuss in detail product recovery of alkaline proteases.

(2) Give a detail account of screening techniques for organic acid production.

(3) Explain: Microorganisms can be used as a source of pigments in food.

4. Write a note on: (any two)

(1) PHA: separation and purification

(2) Microbial production of Xanthan gum.

(3) Production and application of Biosurfactants.