DMM-1803
M. Sc. Microbiology (Sem. IV) Examination
April/May – 2016
MB-401 : Fermentation Technology

Time : 3 Hours] [Total Marks : 70

Instructions :

(1)

(2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagrams whenever necessary.

1 Answer the following : (any two) 18
(1) Give the role of mutation and plasmids in strain improvement.
(2) Elaborate a note of preservation techniques used for industrial important micro organisms.
(3) Discuss screening techniques with its merits and demerits.

2 Answer the following : (any two) 18
(1) Give methods of media sterilization.
(2) Discuss precautions during media preparation for cell culture.
(3) Comment : Various sources of carbon used used in media preparation.
3 Answer the following: (any two)

(1) Elaborate an assay on types fermenter.
(2) Explain the factors fermentation kinetics.
(3) Give detail account on turbidostate.

4 Write short notes: (any two)

(1) Quantity of inoculum for fermentation process.
(2) Filters: types and their role.
(3) Solid-liquid extraction: process and application.