Third Semester M. Sc. (Part - II) (CBCS)
Examination

MICROBIOLOGY

Paper - XI

Fermentation Technology

P. Pages: 3

Time: Three Hours]

[Max. Marks: 80

- Note: (1) All questions are compulsory and carry equal marks.
 - (2) Draw well labelled diagrams wherever necessary.
- (a) Describe various parameters of batch fermenter.
 - (b) Explain various types of bioreactor in detail.

OR

- (c) Elaborate advantages and dis-advantages of continuous fermentation.
- (d) Describe computer control of fermentation.

3

2. Define steroids. How are they produced?

OR

Describe in detail microbial production of L-asparaginase. 16

3. Explain the process of production of single cell proteins.

OR

How is beer produced? Differentiate between beer and wine.

- 4. Explain in detail production and market potential of following fermentation.
 - (a) Saurkraut
 - (b) Sausages 8

OR

- (c) What is food poisoning? Give responsible organisms.
- (d) Explain in detail different paerameters considered to check bacteriological quality of food.

Describe the fungal biomass production of Paecilomyces varioti by Pekilo process.

OR

Explain in detail desirable characteristics and health benefits of probiotics. 16