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B.Sc.(BT) (2013 to 2017) (Sem.-6) FERMENTATION TECHNOLOGY Subject Code : BSBT-306 Paper ID : [F0229]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks 1. each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students 3. have to attempt any TWO questions.

SECTION-A

- Write briefly : 1)
- er.com a) What do you mean by cell disruption?
 - b) Define sterilization.
 - c) Define enzyme and enzyme activity.
 - d) What do you mean by scale up?
 - e) What are the factors affecting on K_{La} ?
 - f) What do you mean by aseptic operations?
 - g) What is the volumetric oxygen transfer coefficient?
 - h) What do you mean by downstream processing?
 - i) What do you mean by drying?
 - i) What do you mean by immobilization?



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SECTION-B

- 2) Discuss microbial growth kinetics.
- 3) Write a note on continuous sterilization.
- 4) Explain the theory of centrifugation.
- 5) List five applications of enzyme.
- 6) Write a note on microbial insecticides.

SECTION-C

- 7) Explain different ways of protein precipitation.
- 8) Explain microbial production of biosurfactants and their importance.
- 9) Write advantages and disadvantages of immobilization. Discuss the various methods in details.