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Total No. of Questions: 09

B.Sc.(BT) (2014 to 2017) (Sem.-6) FERMENTATION TECHNOLOGY

Subject Code: BSBT-306 M.Code: 47066

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

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

SECTION-A

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1) Write briefly:

- a) Write monod equation.
- b) Write importance of Aeration.
- c) What are the factors affecting on K_La ?
- d) Define a term of sterilization.
- e) Define a term of Biomass. Give two examples.
- f) Explain Fed batch culture.
- g) What is dilution rate?
- h) Define enzyme. Give two examples of enzyme.
- i) What are advantages of enzyme immobilization?
- j) Define scale-up and scale-down.



SECTION-B

- 2) What is drying and why it is important?
- 3) Describe Monod's growth kinetics.
- 4) Compare and contrast a batch and continuous bioreactor.
- 5) Explain the term of media optimization and Antifoam.
- 6) Write a short note on industrial application of enzyme.

SECTION-C

- 7) Discuss the various techniques for enzyme immobilization with suitable examples.
- 8) Explain in detail about the two different design approaches for continuous sterilization process.
- 9) What is downstream process technology? Outline in general the various steps in downstream process technology.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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