

(10) The choice material for construction of a commercial Bioreactor is _____

- (a) SS316 (b) SS304 (c) SS316L (d) Glass

Q-2. Attempt any four questions. Each question carries 5 marks. 20

- (1) Enlist the methods for determination of $K_L a$ values & explain any two methods.
- (2) Draw a labeled diagram of a typical fermenter and describe the different parts of the fermenter in brief.
- (3) Explain primary screening for isolation of industrially important microorganisms.
- (4) Discuss the techniques for the isolation of auxotrophic mutant.
- (5) Describe Alcohol fermentation process with recovery in brief.
- (6) Explain the Inovulum development process for Fungi.

Q-3. Attempt any one questions. Each question carries 10 marks. 10

- (1) Describe the Applications of recombinant DNA technique in strain improvement.
 - (2) Describe the raw materials used for the formulation of fermentation medium.
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