

A (Printed Pages 3)
(20620) Roll No.
B.Sc. (Biotech.) III Year

NS-3478 (CV)

B.Sc. (Biotechnology) Examination,

June - 2020

Industrial Biotechnology

(B-306)

Time : Two Hours / (Maximum Marks : 75)

Note : Attempt any four questions. All questions carry equal marks.

1. How are some certain microorganisms selected over others for industrial applications? Give examples.
2. Write short notes on any two :
 - (i) *Asparases*
 - (ii) *Proteases*
 - (iii) *Amylases*

P.T.O.

3. Write about commercial production of antibiotics in details.
4. Elaborate on various types of Bioreactors. Also differentiate between fermentors and bioreactors.
5. Write about commercial production of :
 - (i) Vitamin B₁₂
 - (ii) Riboflavin
6. Elaborate on food adulteration with special reference to :
 - (i) Dairy products
 - (ii) Food grains
7. Describe about solid state fermentation in details.
8. Write a detailed note on stability analysis of bioreactors.

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(9) Write short notes on :

(i) Fermentation Media Aeration

(ii) Batch v/s Continuous culture

10. Give an elaborate note on Photobioreactors highlighting their application and industrial significance.

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