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BR—104—2016

FACULTY OF SCIENCE

M.Sc. (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(CBCS Pattern)

BIOTECHNOLOGY

Paper BT-XII

(Industrial Biotechnology)

(Friday, 18-11-2016)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) All questions carry equal marks.

(iii) Draw well labelled diagrams wherever necessary.

(iv) Give example/type wherever necessary.

1. Describe in detail physical and chemical methods of cell disruption. 15

Or

(a) Write a note on Fermentation Economics. 8

(b) Describe in brief Liquid-Liquid extraction. 7

2. Describe in detail alcohol production. 15

Or

(a) Give an account of Vit. B12 production. 8

(b) Describe in brief L-Tryptophan production. 7

3. Define Polysaccharides. Explain about Xanthum gum production and its applications. 15

Or

(a) Write a note on Pectinases. 8

(b) Comment on Biodegradable Plastic. 7

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(2)

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4. What is Microbial Transformation ? Explain the concept and types of bioconversion reactions. 15

Or

- (a) Comment on biotransformation of steroids. 8
- (b) Write a note on pyrogen testing. 7
5. Write short notes on (any *three*) : 15
- (a) Centrifugation
- (b) Erythromycin
- (c) Dextran production
- (d) Sterility testing
- (e) Riboflavin.

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