

This question paper contains **2** printed pages]

BG—14—2016

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Revised Course)

BIOTECHNOLOGY

Paper (BTT-6.2)

(Industrial Biotechnology)

(Tuesday, 22-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—80

N.B. :— (i) Attempt All questions.

(ii) Draw well labelled diagrams wherever necessary.

- | | | | |
|----|------|--|----|
| 1. | (i) | Describe in detail citric acid production. | 10 |
| | (ii) | Describe in detail GLP. | 10 |
| 2. | (i) | Describe pectinase production. | 8 |
| | (ii) | Describe Vitamin B ₂ production. | 7 |
| | | <i>Or</i> | |
| | (i) | Explain penicillin selection method. | 8 |
| | (ii) | Describe method for isolation of mutants which do not recognise presence of feedback inhibitors. | 7 |
| 3. | (i) | Describe filtration for cell removal. | 8 |
| | (ii) | Describe HPLC. | 7 |
| | | <i>Or</i> | |
| | (i) | Explain centrifugation for cell removal. | 8 |
| | (ii) | Describe liquid-liquid extraction. | 7 |
| 4. | (i) | Describe sterility testing. | 8 |
| | (ii) | Explain Q.C. | 7 |

P.T.O.

WT

(2)

BG—14—2016

Or

- (i) Describe toxicity testing. 8
- (ii) Explain pyrogen testing. 7
- 5. Write short notes on (any *three*) : 15
 - (i) Q.A.
 - (ii) Fermentation economics
 - (iii) Applications of protease
 - (iv) Reverse osmosis
 - (v) Auxotrophs and prototrophs.