

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

BG—10—2016

FACULTY OF SCIENCE

B.Sc. (BT) (First Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Revised Course)

BIOTECHNOLOGY

Paper (BTT-1.2)

(Basics of Biosciences)

(Monday, 21-11-2016)

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

Time—3 Hours

Maximum Marks—80

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

(ii) Draw well-labelled diagrams wherever necessary.

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|----|-----|---|----|
| 1. | (a) | Describe in detail prokaryotic cell. | 10 |
| | (b) | Explain structural morphology and functions of stem. | 10 |
| 2. | (a) | Explain role of vernalization in physiology of flowering. | 8 |
| | (b) | Define fruit. Add a note on types of fruit. | 7 |

Or

- | | | | |
|----|-----|---|---|
| | (a) | Give an account on modifications of root. | 8 |
| | (b) | Explain structure and function of seed. | 7 |
| 3. | (a) | Explain female reproductive cycle in detail. | 8 |
| | (b) | Describe the concept of embryo transplantation. | 7 |

Or

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| | (a) | What is aquaculture ? Explain the of aquaculture. | 8 |
| | (b) | Take an account on fertilization in animals. | 7 |

P.T.O.

4. (a) Describe in detail reproduction in fungi. 8
(b) Given a note on prevention of fungal growth. 7
- Or*
- (a) Explain nutritional requirement of fungi. 8
(b) Add a note on role of environmental conditions on fungi. 7
5. Write short notes on (any *three*) : 15
- (a) Sericulture
(b) Accessory floral whorls
(c) Asexual spores
(d) Gestation
(e) Photoperiodism.