

This question paper contains 2 printed pages]

BG—03—2016

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2016

(Revised Course)

BIOTECHNOLOGY

Paper BTT-1.1

(Introduction to Biotechnology)

(Friday, 18-11-2016)

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

Time—Three Hours

Maximum Marks—80

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

(ii) All questions carry equal marks.

(iii) Draw neat and labelled diagram wherever necessary.

1. (a) What is transgenic plant ? Add a note on method used for production of transgenic plant. 10
- (b) Define Biofuel. Explain in detail biogas as Biofuel. 10
2. (a) Add a note on plant tissue culture with its applications. 8
- (b) What is Ag-Ab interaction ? Explain with its examples. 7

Or

- (a) What are alcoholic beverages ? Add a note on Beer Production. 8
- (b) Explain in detail Biodegradation with its applications. 7
3. (a) Explain in detail Biodiversity with methods used for conservation of endangered species. 8
- (b) Write in detail role of enzyme industry in biotechnology. 7

Or

- (a) What is Biopesticides ? Add a note on types and applications of biopesticides. 8
- (b) Describe in detail waste water treatment. 7

P.T.O.

WT

(2)

BG—03—2016

4. (a) What are Vitamins ? Add a note on types and applications of vitamins. 8
- (b) What is artificial seed ? Add a note on protocol used for preparation of artificial seed. 7
- Or*
- (a) Define solid waste management. Add a note on composting. 8
- (b) Explain role of Bioinformatics in Biotechnology. 7
5. Write short notes on (any *three*) : 5×3=15
- (a) Vaccines
- (b) Plant Breeding
- (c) Biodiesel
- (d) Nanobiotechnology
- (e) Stem cells.

BG—03—2016