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BR—348—2016

FACULTY OF SCIENCE

M.Sc. (Biotech.) (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(CBCS Pattern)

BIOTECHNOLOGY

Paper BT-XIV

(Plant and Agriculture Biotechnology)

(Wednesday, 23-11-2016)

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

Time—3 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/types wherever necessary.

1. Give a detailed account on protoplast culture and micropropagation. 15

Or

(a) Comment on cryopreservation. 8

(b) Add a note on Trichoderma. 7

2. Explain strategy of crops for the resistance to bacterial diseases with an example. 15

Or

(a) Diazotrophic microorganisms. 8

(b) Comment on Terminator technology. 7

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3. Explain physiology and production technology of cyanobacteria as a microbial inoculant. 15

Or

- (a) Comment on rhizobia. 8
- (b) Add a note on symptoms caused by fungal infection. 7
4. Explain host-pathogen relationship during infection in bacterial disease. 15

Or

- (a) Add a note on insect resistant crops. 8
- (b) Comment on microbial insecticides. 7
5. Write short notes on (any *three*) : 15
- (a) DNA banking
- (b) Azotobacter
- (c) Plant pathology
- (d) Biopesticides
- (e) Embryo rescue.