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NB—19—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(New Course)

BIOTECHNOLOGY

(Agriculture Biotechnology)

(Wednesday, 6-12-2023)

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

Time—3 Hours

Maximum Marks—75

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

(ii) Each question carries equal marks.

(iii) Draw neat diagram wherever necessary.

1. Explain in brief non-symbiotic N_2 fixation. 15

Or

(a) Write a note on mechanism of N_2 fixation. 8

(b) Describe in brief nodule development. 7

2. Describe in detail Azotobacter as Biofertilizer Inoculant. 15

Or

(a) Write a note on Rhizobium inoculant. 8

(b) Explain in brief Bluegreen algae as Biofertilizer. 7

P.T.O.

WT

(2)

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3. Describe in brief causative agent, symptoms, mechanism of action and control measures of bacterial blight of cotton. 15

Or

(a) Classification of plant diseases based on symptoms. 8

(b) Whip smut of sugarcane. 7

4. Describe in detail Biomass. 15

Or

(a) Biopesticides 8

(b) Spirulina. 7

5. Write short notes on (any *three*): 15

(a) Function of Auxin

(b) Assimilation of phosphorus in plants

(c) Application of Biofertilizer

(d) Advantages of Biopesticides

(e) Citrus canker of lemon.

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