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NY—21—2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

BOTANY

Paper-I

(Biology and Diversity of Microbes)

(Tuesday, 5-12-2023)

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

Time—3 Hours

Maximum Marks—75

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

(ii) All questions carry equal marks.

(iii) Draw neat and well labelled diagrams wherever necessary.

1. Describe in detail ultrastructure of bacterial cell. Add a note on economic importance of bacteria. 15

Or

Describe various symptoms of bacterial diseases of plants. Add a note on citrus canker.

2. Give an account of transmission of plant viruses. Add a note on their economic importance. 15

Or

Describe general characters and ultrastructure of Mycoplasma. Add a note on sesamum phyllody.

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3. Give an account of classification of fungi proposed by Ainsworth, 1973. 15

Or

Describe in detail vegetative and reproductive structures in Ascomycotina.

4. Describe in detail methods of mushroom cultivation. Add a note on their nutritional and medicinal value. 15

Or

Give an account of role of fungi in agriculture.

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

- (a) Gram staining
- (b) Yellow vein mosaic of Bhendi
- (c) Types of lichens
- (d) Fungi in medicine.

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