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LB—21—2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

APRIL/MAY, 2023

(NEW/CBCS PATTERN)

BOTANY

Paper-I

(Biology and Diversity of Microbes)

(Wednesday, 3-5-2023)

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

Time—Three 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. Give an account of classification of Bacteria as per Bergey's manual. 15

Or

Describe in detail reproduction in Bacteria.

2. Describe in detail chemical composition and ultrastructure of plant viruses. 15

Or

Describe various symptoms of viral diseases of plants. Add a note on economic importance of viruses.

P.T.O.

3. Give an account of classification of fungi as per Alexopoulos and Mims, 1979. 15

Or

Describe in detail reproduction in fungi.

4. Explain in detail role of fungi in industry. 15

Or

Explain role of fungi in agriculture and wood destruction.

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

- (a) Nutrition in Bacteria
- (b) Symptoms of Mycoplasmal diseases of plants.
- (c) Thallus organization in fungi
- (d) Nutritional and medicinal value of mushrooms.