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NA—90—2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New Course)

MICROBIOLOGY

Paper III

(Basic Microbiology and Biomolecules)

(Tuesday, 19-12-2023)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—40

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

(ii) Illustrate your answer with suitable labelled diagram wherever necessary.

1. What are Bacteriophages ? Explain in detail lysogeny. 15

Or

Write on :

(a) Principle, mechanism, procedure and observations of monochrome staining. 8

(b) Principle, mechanism, procedure and observations of Gram's staining. 7

2. Explain in detail structural and functional properties of DNA. 15

P.T.O.

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(2)

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Or

Write on :

- (a) Structural and functional properties of lipids. 8
- (b) What are Carbohydrates ? Explain types of carbohydrates. 7
3. Write short notes on (any two) : 10
- (a) Viruses
- (b) Leuco compounds
- (c) Significance of carbohydrates
- (d) Enzymes.

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