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NA—113—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(New Course)

MICROBIOLOGY

Paper-IV

(Microbial Physiology)

(Thursday, 21-12-2023)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (1) Attempt *all* questions.

(2) Represent your answer with suitable diagrams if necessary.

(3) Answer to the point.

1. What is pure culture ? Illustrate pour plate technique for isolation of bacteria. 15

Or

Write notes on :

(a) Group Translocation 8

(b) Facilitated diffusion. 7

2. Explain in detail process of sporulation in bacteria. 15

Or

Write notes on :

(a) SPC 8

(b) Turbidostat. 7

P.T.O.

WT

(2)

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3. Write short notes on (any *two*) :

10

- (a) Differential medium
- (b) Active transport
- (c) Effect of pH on bacterial growth
- (d) Structure of Endospore.

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