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Exam. Code : 107402 Subject Code : 1845

B.Sc. (Biotechnology) 2nd Semester GENERAL MICROBIOLOGY—B Paper : BT-8

Time Allowed—Three Hours] [Maximum Marks—40]

Note :— Attempt FIVE questions in all, selecting at least ONE question from each Section. The fifth question may be attempted from any section.

SECTION-A

- I. (a) Write short notes on :-
 - (i) Chemostat
 - (ii) Turbidostat
 - (iii) Generation time
 - (iv) Diauxic growth.

 4×1

5

- (b) Give a concise account of the structure, resistance and germination of an endospore. 4
- II. (a) Draw a typical bacterial growth curve and label the various phases. Discuss those factors which determine the beginning and end of each phase.
 - (b) Mention the differences between endospore and vegetative cell. 3

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(Contd.)

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SECTION-B

- III. (a) Give a concise account on cultivation of viruses.
 - (b) Write short notes on :--
 - (i) Symmetry of viruses
 - (ii) Classification of viruses. 2×2
- IV. What are bacteriophages ? Discuss in brief the structure and life cycle of T4 bacteriophage (Lytic Cycle). 8

SECTION-C

- V. (a) What is microbial pathogenicity ? Mention the names of factors that contribute for microbial Pathogenicity. Describe the process of adhesion of microbial pathogens.
 - (b) What are non-specific defence mechanisms of body ? Explain in detail how microorganisms are ingested and digested during phagocytosis ?
 - 4

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VI. Give in detail the mechanism of action, diagnosis and treatment for viral disease Influenza.

SECTION-D

- VII. Give in detail the mechanism of action, diagnosis and treatment for bacterial disease Typhoid. 8
- VIII. What is Candidiasis ? Give its mechanism of action, diagnosis and treatment measures. 8

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