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Total No. of Printed Pages: [01]

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B.Sc. (Food Science and Technology) (Semester – 1st)

GENERAL MICROBIOLOGY

Subject Code: BFOTS1-101

Paper ID: [21311701]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

- Q1. Attempt the following:
- a. Vegetative reproduction
 - b. Plateau phase
 - c. Pure culture
 - d. Facultative anaerobes
 - e. Streak plating
 - f. Fungal mycelium
 - g. Auxotroph
 - h. Koch postulates
 - i. Aflatoxins
 - j. Binary fission

Section – B

(5 marks each)

- Q2. Write a note on Koch's postulates and the germ theory of disease.
- Q3. What is the growth curve? Elaborate on the different methods used for growth measurements.
- Q4. Define water activity. Discuss the role of water activity in microbial growth.
- Q5. What are prokaryotic and eukaryotic micro-organisms? Enlist their properties.
- Q6. Classified bacteria on the basis of their nutritional requirements.

Section – C

(10 marks each)

- Q7. Define asexual reproduction. Discuss the different ways of fungi reproduction with well-labeled diagrams.
- Q8. Explain the effect of extrinsic and intrinsic factors on microorganism growth.
- Q9. Discuss the control of microorganisms by various physical methods in detail.