

2123

B. Voc. (Medical Lab Technology)
Third Semester
BMLT-304: Fundamentals of Microbiology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

x-x-x

I. Write answer in very brief:-

- a) Define the microbiology.
- b) Give the name of gram -ve bacteria.
- c) Write name of bacteria which caused tuberculosis.
- d) Give the name of one bacterium present in human digestive system.
- e) What do you mean by algae?
- f) What is the fungus?
- g) What is the antigen?
- h) Define pathogenicity. (8x1)

UNIT - I

- II. a) Briefly describe the difference between eukaryotic and prokaryotic pathogenic cell. (2x4)
- b) Write the structure of bacterial cell. (2x4)
- III. a) Explain about the growth of bacterial cell in a media. (2x4)
- b) Describe in brief about the safety measure in microbiology. (2x4)

UNIT - II

- IV. a) Give the general properties of fungi. (2x4)
- b) Write in brief about bacterial classification. (2x4)
- V. a) What is the bacteriophage?
- b) Give the name of two capsular bacteria, also write the significance of capsule. (2x4)

UNIT - III

- VI. a) What are the general properties of actinomycetes? (2x4)
- b) Briefly classified the pathogenic fungi. (2x4)

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- VII. a) Write about the Fungal infections and diagnostics.
b) Briefly describe general properties of virus. (2x4)

UNIT - IV

- VIII. a) What are the pure culture?
b) What is the theory of gram staining process? (2x4)
- IX. a) Mentioned the various roles of microbiology in laboratory.
b) What are antiseptics? What are their roles in Labs? (2x4)

x-x-x