Exam Code: 8121 Sub. Code: 41002

2124

B. Voc. (Medical Lab Technology) FYUP First Semester

MLT-102: Fundamentals of Microbiology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

X-X-X

- Answer the following:
 - a) Define the microbiology?
 - b) Give name of gram +ve bacteria?
 - c) Flagella.
 - d) Where spore is present?
 - e) Give a name of human virus.
 - f) What are the antiseptics?
 - g) Role of RBCs.
 - h) Pure culture.

(8x1)

UNIT - I

- II. a) Briefly describe the scope of microbiology.
 - b) Differences between prokaryotes and eukaryotes cells.

(2x4)

- III. a) Write in brief about the structure of E coli.
 - b) Briefly describe the growth curve of bacteria.

(2x4)

UNIT - II

- a) Briefly describe the structure of fungal cell.
 - b) Briefly describe the structure of cell wall of bacterial cell.

(2x4)

- V. a) Write the main features spores and cysts.
 - b) Mentioned the functions of capsules of bacteria.

(2x4)

<u>UNIT - III</u>

- VI. a) Write the main characteristics of algal cell.
 - b) What are pathogenic fungi? Write names of human diseases that caused by fungi. (2x4)

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(2)

VII. a) Write about the structure of bacteriophage. How you detect virus in lab.

b) Briefly describe general properties of viruses.

(2x4)

UNIT - IV

VIII. a) What do you mean by pure culture? Mentioned one method to make pure bacterial culture.

b) Write a short note on Gram staining.

(2x4)

IX. a) Write in brief about the method of physical sterilization in microbiology.

b) Mentioned the various disinfectants used in microbiology.

(2x4)