

2053

B. Voc. (Medical Lab Technology)

Fourth Semester

BMLT-405: Microbiology – I

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. Explain the following:-

- a) What is gram negative bacteria? Give examples.
- b) Name the source of complement in C.F.T.
- c) Name the causative agent of Gonorrhoea.
- d) What is tube flocculation test?
- e) Write the symptoms of diphtheria.
- f) Name two parasitic fungi.
- g) Which immunological test is used to identify antibody titre?
- h) Name the biological indicator used in anaerobic jar.

(8x1)

UNIT - I

- II. a) Explain the anatomy of a bacterial cell.
- b) Difference mycobacteria and spirochetes.

(4,4)

- III. a) Write note on pyogenic cocci.
- b) Describe the normal flora of human body.

(4,4)

UNIT - II

- IV. Describe the laboratory diagnosis of whooping cough and meningitis.
- V. Discuss the laboratory diagnosis of Sexually Transmitted Diseases.

(8)

(8)

UNIT - III

- VI. a) Discuss the Principle of Antigen-Antibody reaction.
- b) Diagnostic mycology

(4,4)

- VII. Explain the principle and mode of action of antibiotics and chemotherapeutic agents for bacteria and fungi.

(8)

P.T.O.

(2)

UNIT - IV

VIII. Write notes on the followings:

- a) Laboratory techniques in parasitological investigation of stool
- b) Automation methods in diagnostic microbiology (4,4)

IX. Explain the methods of collection, transportation and processing of clinical samples for microbiology investigation. (8)

x-x-x