

2124

B. Voc. (Medical Lab. Technology)  
Fifth Semester

BMLT-504: Serology: Introduction and serological Lab Procedures

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. Attempt the following:-

- a) What is an antigen?
- b) Give principle of LFT test.
- c) Which serological test is used for syphilis?
- d) Enlist fungus causing pulmonary infections.
- e) What is the use of RIA technique?
- f) What is the importance of rapid diagnostic methods?
- g) What is RPHA?
- h) What is the use of HA serological technique? (8x1)

**UNIT - I**

- II.
  - a) Discuss structure and classes of antibodies.
  - b) What is the method of specimen collection and preparation? (2x4)
- III.
  - a) Enlist different epidemiological markers of microorganisms can be used in serotyping?
  - b) Write notes on:-
    - i) Serodiagnosis of streptococcal infection
    - ii) Pregnancy test (2x4)

**UNIT - II**

- IV.
  - a) Give principle of LFT and CRP.
  - b) Discuss lab diagnosis of subcutaneous fungal infections. (2x4)

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(2)

- V. a) Discuss lab diagnosis of Candidiasis and eye infections.  
b) How cold agglutination test is performed? (2x4)

**UNIT - III**

- VI. a) Give principle and applications of ELISA test.  
b) How serological analysis can be performed for skin? (2x4)
- VII. a) Discuss significance of rapid diagnostic methods in microbiology.  
b) Write short notes:-  
i) GLC  
ii) CCIEA (2x4)

**UNIT - IV**

- VIII. Give principles for following serological tests  
a) SRH  
b) Immuno-peroxidase test (8)
- IX. Which serological techniques are used in viral detection? Give principle of IF and RIA. (8)

x-x-x