

2124

B. Voc. (Medical Lab. Technology)  
Third Semester  
BMLT-305: Bacteriology, Mycology and Virology

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

**Q: 1. Explain the followings:**

- a) Aspergillosis
  - b) Virulence factor
  - c) What is the principle of gelatin liquification?
  - d) Antimicrobial Susceptibility Test
  - e) Explain IMVic test.
  - f) Septicaemia
  - g) Name the biochemical test used for identification of Dematiaceous fungi.
  - h) Name the disease caused by *Neisseria*
- (8X1=8)

**UNIT-I**

Q: 2. Write the general characteristics of *Streptococcus* bacteria. Give an account of diseases caused by them, their diagnosis and treatment. (8)

Q: 3. Discuss the operative pathogenic mechanisms, laboratory diagnosis, prevention and control of *Haemophilus* and *Mycobacterium*. (8)

**UNIT-II**

Q: 4. Discuss the antimicrobial sensitivity testing and assay methods for body fluids. (8)

Q: 5 Explain the lab diagnosis of Pulmonary infections, mycotic infections and subcutaneous fungal infections. (8)

**UNIT- III**

Q: 6. Explain the morphology, pathogenesis, life cycle, laboratory diagnosis, prevention and control of Influenza and AIDS. (8)

Q:7. Write notes on the followings:

- (a) Chemotherapy of Oncogenic Viruses.
  - (b) Washing, cleaning and sterilization of media in virology
- (4,4)

**UNIT- IV**

Q:8. Explain the Principles of Animal cell culture and their use in virology. (8)

Q:9. Write notes on the followings:

- (a) Staining techniques used in virology.
  - (b) Different modes of transmission of viral agents
- (4,4)

x-x-x