REV-01 BMLT/48/24/29

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY THIRD SEMESTER MICROBIOLOGY III

BMLT-304

(USE OMR SHEET FOR OBJECTIVE PART)

Duration: 3 hrs.

Full Marks: 70

2023/12

Time: 30 min.

Objective)

Marks: 20 $1 \times 20 = 20$

Choose the correct answer from the following:

- 1. A positive tuberculin test is indicated by induration of a. 10 mm or more in diameter
- b. 5-9 mm in diameter

c. 2-4 mmin diameter

- d. None of the above
- 2. Nagler's reaction is shown by
 - a. Cl. tetani

b. Cl. botulinum d. Cl. septicum

- c. Cl. perfringens
- 3. Malta fever is also called as
 - a. Undulant fever
 - c. Hemorrhagic fever

- b. Relapsing fever d. Rat bite fever
- 4. Most sensitive test for Treponoma a. VDRL
 - c. FTA-ABS

- b. RPR
- d. Kahn
- 5. The generation time for lepra bacilli is
 - a. 20 minutes

b. 2 hours

c. 20 hours

- d. 12-13 days
- 6. Which immunity plays a major role in pathogenesis of Mycobacterium tuberculosis
 - a. Cell mediated immunity
- b. Humoral immunity

c. Local immunity

d. None of the above

- 7. Allograft means
 - Transplant between different species
 - Transplant between same species but not genetically identical
- Transplant between same species
- and genetically identical
- Grafting from own body
- 8. Grave's Disease is the example of
 - a. Haemocytolytic disease
- b. Systemic Disease

c. Organ specific

d. Both b & c

2

Descriptive

Time: 2 hrs. 30 min. Marks: 50 [Answer question no.1 & any four (4) from the rest] 10 1. Explain briefly about competitive and sandwich ELISA along with diagram 10 2. Define antibody and antigen. Write notes on IgM and IgG. 5+5=10 3. a. Explain briefly about Coomb's Testing b. Write short notes on indirect IFT. 4. Write short note on classical pathway. 10 5. a. Define precipitation and agglutination reaction along with 4+6=10 example. b. Explain briefly about hypersensitivity reaction. 6. a. Explain the morphology, cultural characteristics and 7+3=10 laboratory diagnosis of Mycobacterium tuberculosis. b. Write a short note on laboratory diagnosis of Mycobacterium laprea. 7. a. Explain the morphology, cultural characteristics and 6+4=10 laboratory diagnosis of Brucella b. Explain the morphology and laboratory diagnosis of Clostridium tetani. a. Write a note on pathogenesis of Clostridium perfriengens 4+6=10 b. Write procedure and interpretation of ZN staining along with diagram.

== *** = =