

**POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY**

**(P.G.D.M.L.T.)**

**P.G.D.M.L.T. :SUMMER- 2022**

**SUBJECT : MICROBIOLOGY**

Day : Wednesday

Date : 6/7/2022

**S-25042-2022**

Time : 01:30 PM-04:30 PM

Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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**Q.1** Draw neat labelled diagram of bacterial cell. Describe bacterial flagella and capsule in detail. [15]

**Q.2** Laboratory diagnosis of pulmonary tuberculosis in detail. [15]

**Q.3** Define serological reactions. Enumerate Antigen-Antibody reactions. Describe in detail ELISA. [15]

**Q.4** Classify fungi with examples. Describe the steps in the laboratory diagnosis of fungal infections in detail. [15]

**Q.5** Write short notes on **ANY FOUR** of the following: [20]

- a) Enriched media
- b) Laboratory diagnosis of gas gangrene
- c) Laboratory diagnosis of malaria
- d) Coagulase test
- e) Laboratory diagnosis of cryptococcosis

**Q.6** Write short notes on **Any FOUR** of the following: [20]

- a) Hot air oven
- b) Methods of anaerobiosis
- c) Universal safety precautions
- d) Laboratory diagnosis of HIV
- e) Serological diagnosis of syphilis

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