

POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY  
(P.G.D.M.L.T.)

P.G.D.M.L.T. : WINTER- 2022

SUBJECT : MICROBIOLOGY

Day : Friday

Time : 01:30 PM-04:30 PM

Date : 6/1/2023

W-25042-2022

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.

Q.1 Describe various nutritional requirements of bacteria. Classify culture media [15]  
with examples. Mention their uses and method of sterilisation.

Q.2 Describe serological diagnosis of syphilis in detail. [15]

Q.3 Enumerate Antigen-Antibody reactions. Describe in detail precipitation [15]  
reactions in detail with its applications in laboratory diagnosis.

Q.4 Classify dermatophytes. Describe laboratory diagnosis of dermatophytosis. [15]

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

- a) Laboratory diagnosis of hepatitis
- b) Bacterial cell wall
- c) Sputum concentration methods
- d) Laboratory diagnosis of shigella dysentery
- e) Laboratory diagnosis of meningococcal meningitis

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

- a) Laboratory diagnosis of filariasis
- b) Laboratory diagnosis of diphtheriae
- c) Autoclave
- d) Maintenance of bacterial stock culture
- e) Stool examination in diagnosis of parasitic infections

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