

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0921]

**SEPTEMBER 2021  
(MAY 2021 EXAM SESSION)**

**Sub. Code: 1252**

**M.Sc. MEDICAL LABORATORY TECHNOLOGY  
FIRST YEAR (2011-2012 Regulation - From 2013-2014 onwards)  
PAPER II – GENERAL BACTERIOLOGY, IMMUNOLOGY AND  
PARASITOLOGY  
*Q.P. Code : 281252***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail Physical methods of sterilization high lighting the advantages and disadvantages of each method.
2. Write in detail structure of a prokaryotic cell. Elaborate on the structure and functions of the flagella of bacteria.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Growth curve of bacteria.
2. Bacterial spores.
3. Type IV hypersensitivity reaction.
4. Koch's postulates and its relevance in Medical Microbiology.
5. Types of Electron microscopy and applications in Microbiology.
6. Immune cells involved in natural immunity.
7. Methods of transmission of Bacterial Antibiotic resistance.
8. Structure and function of IgA antibody.
9. Write in detail laboratory diagnosis of any two Blood parasites.
10. Methods of identification of intestinal protozoans in stool sample.

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