

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

[MD 0723]

JULY 2023

Sub. Code: 2014

(MAY 2023 EXAM SESSION)

M.D. DEGREE EXAMINATION

BRANCH IV – MICROBIOLOGY

PAPER I – GENERAL MICROBIOLOGY AND IMMUNOLOGY

Q.P. Code: 202014

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

1. Classify Antigen Antibody reaction. Write in detail about Precipitation reaction and its clinical application.
2. Classify Sterilization and Disinfection. Write in detail about Autoclave and its application. Add a note on Modern Autoclaves. Give brief account on CSSD.

II. Short notes:

(10 x 5 = 50)

1. Robert Koch.
2. Theatre sterilization.
3. Fimbriae and its demonstration.
4. Differential Medias.
5. Plasmid.
6. Idiotypic and Anti idiotypic antibodies.
7. Immunoglobulin A.
8. Complement pathway.
9. Larger Granular Lymphocytes.
10. Graft versus Host Reaction.

III. Reasoning Out:

(4 x 5 = 20)

1. Ultrasonic devices are not reliable for regular use in disinfection or sterilization.
2. Blood samples are subjected to bacterial culture only after 1:10 dilution.
3. Pregnancy as an example of Immunological tolerance.
4. Conglutinin causes clumping of cells of particles coated with complement a process known as Conglutination.
