

[LQ 117]

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 2014

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. Explain in detail about the various biosafety levels and exposure control plan in the microbiology laboratory.
2. Classify immunodeficiency diseases. Write in detail on Primary immunodeficiency disorders.

II. Short notes:

(10 x 5 = 50)

1. Mailing Biohazardous materials.
2. Antigen presenting cells.
3. Subunit vaccines.
4. Heterophile antibodies.
5. Superantigens.
6. Bacterial cell wall.
7. Flow cytometry.
8. Pathogenicity islands.
9. Maintenance of stock culture.
10. Immunomodulators.

III. Reasoning Out:

(4 x 5 = 20)

1. Procalcitonin is more reliable than C-reactive protein.
2. Three consecutive samples are required in Sub-acute Bacterial endocarditis.
3. Oxidase test should not be performed from colonies in sugar containing media.
4. Pregnancy as an example of Immunological tolerance.
