

Q.P.CODE:132-NR

Dr. NTR University of Health Sciences::Vijayawada-520 008

M.D. DEGREE EXAMINATION – APRIL, 2019

MICROBIOLOGY

Paper-I: General Microbiology and Immunology

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Bacterial capsule
2. Dry heat sterilization
3. Gram stain and its modifications
4. Transduction
5. Biosafety cabinets – types and uses
6. Describe active immunity with examples
7. Discuss superantigens with examples
8. Type-IV hypersensitivity reactions
9. ELISA (Enzyme Linked immunosorbent Assay) – Principle, types and uses with examples.
10. Methods of HLA typing and their uses
