



Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. (M.L.T) Degree Examination – APRIL 2015

Time: Three Hours

Max. Marks: 80 Marks

MICROBIOLOGY – III (RS-2)

Q.P. CODE: 2902

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Define and classify immunity. Describe in detail about innate immune mechanisms of the body.
2. Enumerate the organisms causing meningitis. Describe the morphology, cultivation, pathogenicity, laboratory diagnosis of *Neisseria meningitidis*.
3. Enumerate the organisms causing dysentery. Describe the morphology, cultural characteristics, pathogenicity and laboratory diagnosis of *Shigella* species.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Define antigen. What are the factors affecting antigenicity?
5. Describe the production of monoclonal antibodies. Add a note on its uses.
6. Cytokines
7. Anaphylaxis
8. Toxin mediated diseases of *Staphylococcus aureus*
9. Virulence factors of *Corynebacterium diphtheria*
10. Laboratory diagnosis of Anthrax
11. Laboratory diagnosis of Urinary tract infections

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

12. Memory cells
13. MALT
14. Adjuvant
15. Hemolytic autoimmune disorders
16. Classify graft based on recipient-donor relations.
17. Acute rheumatic fever
18. Bile solubility test
19. Nagler's reaction
20. Laboratory diagnosis of Actinomycosis
21. Heat labile and heat stable toxin of *Escherichia coli*
22. Interpretation of Widal test
23. Biological false positive
