



**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III year B.Sc. (M.L.T) Degree Examination – Sep 2012**

**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. Enumerate the bacteria causing sexually transmitted diseases. Describe the morphology cultivation, pathogenicity and laboratory diagnosis of *Treponema pallidum*
2. Enumerate the organisms causing meningitis. Describe the morphology, cultivation, pathogenicity, laboratory diagnosis of *Neisseria meningitidis*
3. Define cell mediated immunity. Write in detail about the role of different types of cells in providing CMI

**SHORT ESSAYS (Answer any Six)**

**6 x 5 = 30 Marks**

4. Define and classify acquired immunity. Give examples for each type
5. Type 2 hypersensitivity
6. Describe the structure and function of IgG
7. Describe the production of monoclonal antibodies
8. Laboratory diagnosis of pneumococcal infections
9. Laboratory diagnosis of anthrax
10. Explain bacillary dysentery. Add a note on its laboratory diagnosis
11. Manifestations of *Mycobacterium tuberculosis*

**SHORT ANSWERS (Answer any Ten)**

**10 x 3 = 30 Marks**

12. Immune sera
13. List out the features of primary immune response
14. Memory cells
15. Define haptens. Give two examples
16. Haemolytic autoimmune disorders
17. Toxic shock syndrome toxin
18. Diphtheria toxin
19. Enumerate the diseases caused by *Clostridium perfringens*
20. Enterotoxigenic *E.coli*
21. PPA test
22. Name any three enrichment media used in the growth of *Vibrio cholerae*
23. Enumerate any three tick borne rickettsial infections

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