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Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. (M.L.T) Degree Examination – SEP 2016

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. Write in detail about Major histocompatibility Complex. Add a note on HLA typing
2. Enumerate the organisms causing gas gangrene. Give a detailed account of the pathogenic mechanism and laboratory diagnosis of gas gangrene.
3. Enumerate the sexually transmitted bacterial infections. Describe the morphology, pathogenesis and laboratory diagnosis of infection caused by *Treponema pallidum*

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Natural acquired passive immunity
5. IgA
6. Delayed hypersensitivity
7. B cells
8. Laboratory diagnosis of Meningococcal meningitis
9. Satellitism
10. Laboratory diagnosis of leprosy
11. DNA hybridization

SHORT ANSWERS (Answer any Ten)**10 x 3 = 30 Marks**

12. Define and give examples of heterophile antigens
13. Antibody titre
14. Plasma cells
15. Atopy
16. Name three immune complex diseases
17. Name three air borne disease
18. Wool sorter's disease
19. Anti-tetanus serum
20. Cholera toxin
21. BCG vaccine
22. Q fever
23. Give a brief account of *Helicobacter pylori*
