

Rajiv Gandhi University of Health Sciences, Karnataka
M.B.B.S. PHASE II Degree Examination – DECEMBER 2015

61

Time: Three Hours

Max. Marks: 100 Marks

MICROBIOLOGY -Paper -I
(RS2 & RS3 SCHEME)
QP Code: 1083

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Define and Classify Immunity. Discuss Innate immunity. (1+3+6)
2. Enumerate medically important Spirochaetes along with diseases caused. Describe pathogenesis and laboratory diagnosis of Leptospirosis. (3+3+4)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial filters
4. Meningococcal meningitis
5. Genetic transfer by conjugation and its significance
6. Briefly write the factors predisposing to microbial pathogenicity
7. Applications of agglutination reactions
8. Non sporing anaerobes
9. Delayed hypersensitivity
10. Non suppurative complications of Streptococcus pyogenes infections and its laboratory diagnosis.
11. Pathogenesis of Tetanus
12. Laboratory diagnosis of leprosy.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Contributions of Robert Koch to microbiology
14. Anaerobic culture media
15. Enumerate methods of antimicrobial susceptibility testing and write principle of each
16. Structure of Major Histocompatibility Complex
17. Name primary lymphoid organs and write their functions
18. Cutaneous anthrax
19. Enzymes and toxins of Staphylococcus aureus
20. Cholera specimen – name three transport media with their uses
21. Vaccine for Typhoid
22. Laboratory diagnosis of Mycoplasma infections

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LONG ESSAYS

2 x 10 = 20 Marks

1. Enumerate Nematodes. Describe life cycle, pathogenicity and laboratory diagnosis of *Ancylostoma duodenale*. (2+4+2+2)
2. Describe morphology, pathogenesis and laboratory diagnosis of HIV. (3+4+3)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Herpes Simplex Virus
4. Superficial Mycoses
5. Dimorphic Fungi
6. Oncogenic Viruses
7. Multiplication of Viruses
8. Extra Intestinal Amoebiasis
9. Dengue fever
10. Viral Diarrhea
11. Bacteriophage
12. Universal Safety Precautions

SHORT ANSWERS

10 x 3 = 30 Marks

13. Classification of Fungi
14. Fungal Food Poisoning
15. Microfilaria
16. *Trichomonas vaginalis*
17. Chick embryo inoculation
18. Viral Haemagglutination
19. Slow viruses
20. Larva migrans
21. Ebola virus
22. Casoni's test
