

MICROBIOLOGY

Time: 3 Hours

Max Marks: 80

Note: Answer part A & B questions in two separate answer books

Question in part “A” should not be answered in part “B” and vice versa. Otherwise they will not be valued

PART – A = 40 Marks

Write an essay on the following:

1 X 10 = 10

1. Morphology, pathogenesis and laboratory diagnosis of Salmonella Typhi.

Write a short note on the following:

5 X 5 = 25

2. Transduction.
3. Escherichia coli.
4. Adaptive immunity.
5. Bacterial growth curve.
6. Hospital acquired infection.

Write briefly on the following:

5 X 1 = 5

7. Give two examples of selective media.
8. Name various modes of transmission of infection in humans.
9. Give two examples of parasitic infections.
10. Clinical manifestations of syphilis.
11. Name the organism that causes.
a) Enteric fever b) Gas gangrene

PART – B = 40 Marks

Write an essay on the following:

1 X 10 = 10

12. Morphology, pathogenesis and laboratory diagnosis of Rabies virus.

Write a short note on the following:

5 X 5 = 25

13. Robert Koch postulates.
14. Agglutination test.
15. Pathogenesis of HIV.
16. Complement system.
17. Pathogenesis of Vibrio cholera.

Write briefly on the following:

5 X 1 = 5

18. Name any two differences between exotoxins and endotoxins.
19. Name Opportunistic fungal infections.
20. Name the diseases caused by:
a) Bordetella b) Mycobacteria
21. Write two differences between Salk and Sabin vaccine.
22. Name the organism that causes:
a) Diphtheria b) Amoebiasis