



Attempt questions first; check the separate key afterward. Use labelled diagrams where asked. Give scientific reasons; answer key covers closed questions.

A. Very short answers - 1 mark each

1. Name the pathogen causing typhoid.
2. Name the malaria vector.
3. Name the infective Plasmodium stage entering humans.
4. Name the pathogen causing amoebiasis.
5. Name the antibody class commonly associated with allergy.
6. Name the cells principally targeted by HIV in textbook descriptions.
7. What is metastasis?
8. Do antibiotics directly cure ordinary viral common colds?

B. Short answers / practice - 2 marks each

9. Explain health as a physical, mental and social state.
10. Compare innate and acquired immunity.
11. Describe physical, physiological, cellular and cytokine barriers.
12. Compare humoral and cell-mediated immunity.
13. Explain primary and secondary immune responses.
14. Distinguish active and passive immunity with examples.
15. Explain the principle of vaccination and immune memory.
16. Describe an antibody's basic structure.
17. Explain allergy and the roles of histamine and mast cells.
18. Distinguish autoimmunity from immunodeficiency.
19. Describe HIV transmission routes and why casual contact is not a route.
20. Explain how HIV progressively weakens immune defence.

C. Application / reasoning - 3 marks each

21. Name two mosquito-borne viral diseases in the syllabus.
22. Name the organism causing ascariasis.
23. Name a filarial worm genus.
24. Explain transmission and prevention of ringworm.
25. Compare pneumonia and common cold by infection site and pathogen groups.
26. Outline the Plasmodium life cycle with human and mosquito hosts.
27. Why do sanitation and vector control complement individual treatment?
28. Differentiate benign and malignant tumours.
29. Explain contact inhibition and its loss in cancer.
30. Distinguish dependence, tolerance and withdrawal in substance abuse.
31. Why is supportive, non-stigmatising help important for adolescents facing addiction?

D. Extended practice - 5 marks each

32. Compare innate and acquired defence with cells, barriers and examples.
33. Describe malaria transmission and life cycle, and explain control measures.
34. Explain cancer development, detection principles and major treatment approaches at textbook level.
35. Discuss prevention of communicable disease and substance abuse through individual and community action.

ANSWER KEY - Numerical / closed questions

- 1) Salmonella typhi. 2) Female Anopheles mosquito. 3) Sporozoite. 4) Entamoeba histolytica. 5) IgE. 6) Helper T lymphocytes/CD4⁺ cells. 7) Spread of malignant cells to distant sites. 8) No. 21) Dengue and chikungunya. 22) Ascaris lumbricoides. 23) Wuchereria.