

MOST IMPORTANT MICROBIOLOGY QUESTIONS FOR GENERIC BSN EXAMINATION 2026

TOP 15 HIGH-CHANCE QUESTIONS (Very Important)

1. Structure of Bacterial Cell with Diagram.
2. Gram Positive vs Gram Negative Bacteria.
3. Sterilization and Disinfection (Difference with Examples).
4. Autoclave: Principle, Procedure, Uses, Advantages.
5. Types of Culture Media with Examples.
6. Chain of Infection and Methods of Prevention.
7. Innate Immunity vs Acquired Immunity.
8. Antigen and Antibody (Functions and Types).
9. Hypersensitivity Reactions (Types I–IV).
10. HIV/AIDS: Transmission, Prevention and Control.
11. Hepatitis B Virus (HBV): Transmission and Prevention.
12. Vaccines: Types and Examples.
13. Fungi and Fungal Infections (Mycoses).
14. Normal Flora of Human Body.
15. Hospital Acquired Infections (Nosocomial Infections).

Most Repeated Long Questions

16. Explain bacterial growth curve with diagram.
17. Explain structure and functions of bacterial cell wall.
18. Describe endospore formation and significance.
19. Explain sterilization methods used in hospitals.
20. Discuss autoclaving and its validation methods.
21. Explain ethylene oxide sterilization.
22. Describe viral replication cycle with diagram.
23. Explain cultivation of viruses.
24. Discuss monoclonal antibodies and their production.
25. Explain hypersensitivity reactions with diagrams.
26. Describe malaria parasite life cycle.
27. Explain tuberculosis: causative agent, transmission and prevention.
28. Discuss poliomyelitis and vaccination.
29. Explain measles, mumps and rubella infections.
30. Discuss hepatitis viruses and prevention.
31. Explain fungal infections of skin.
32. Discuss normal microbial flora and its importance.
33. Explain antimicrobial resistance.
34. Describe infection prevention and control measures.
35. Explain role of microbiology in nursing practice.

Important Short Questions

36. Define microorganism.
37. Define pathogen.
38. Define virion.
39. Define sterilization.
40. Define disinfection.
41. Define antiseptic.
42. Define vaccine.
43. Define toxoid.
44. Define antigen.
45. Define antibody.
46. Define immunity.
47. Define biofilm.
48. Define endospore.
49. Define culture media.
50. Define nosocomial infection.
51. Define vector.
52. Define zoonotic disease.
53. Define septicemia.
54. Define bacteremia.
55. Define opportunistic infection.

Frequently Asked Nursing Microbiology Questions

56. What is hand hygiene and why is it important?
57. What are standard precautions in hospitals?
58. Explain PPE (Personal Protective Equipment).
59. What are blood-borne pathogens?
60. How can nurses prevent cross infection?
61. What is biomedical waste management?
62. Explain specimen collection and transport.
63. What is aseptic technique?
64. What is healthcare-associated infection (HAI)?
65. Explain isolation precautions.

Important Comparison Questions

66. Gram Positive vs Gram Negative Bacteria.
67. Active vs Passive Immunity.
68. Natural vs Artificial Immunity.
69. Sterilization vs Disinfection.
70. Antiseptic vs Disinfectant.
71. Exotoxin vs Endotoxin.
72. Virus vs Bacteria.
73. Fungi vs Bacteria.
74. Innate vs Acquired Immunity.
75. Live Vaccine vs Killed Vaccine.