

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

TELANGANA STATE, WARANGAL – 506 002

B.Sc. (NURSING) THIRD SEMESTER SUPPLEMENTARY DEGREE EXAMINATIONS:

DECEMBER, 2024

APPLIED MICROBIOLOGY AND INFECTION CONTROL INCLUDING SAFETY

Time: 3 Hours

Max Marks: 75

Note: Answer all questions

Give Diagrammatic representation wherever necessary

Part-A (Applied Microbiology) = 37 Marks

Choose the correct answer for the following MCQs

6 X 1 = 6

1. Reduction of virulence is known as
 - a) Exaltation
 - b) Attenuation
 - c) Both a and b
 - d) None of these
2. Virus will contain
 - a) Cell membrane
 - b) Cell wall
 - c) DNA
 - d) DNA or RNA
3. Dengue fever is caused by:
 - a) Bacteria
 - b) Virus
 - c) Fungi
 - d) Rickettsia
4. 70-80% total antibody is constituted by:
 - a) IgA
 - b) IgE
 - c) IgG
 - d) IgM
5. Cells are active and synthesizing new protoplasm. This stage of growth is called
 - a) Decline phase
 - b) Lag phase
 - c) Stationary phase
 - d) All of these
6. Mantoux test detects
 - a) M. tuberculosis
 - b) Corynaebacteria
 - c) Clostridia
 - d) Both a and b

Write an essay on any ONE of the following:

1 X 10 = 10

7. Write in detail about Mode of transmission and Pathogens of covid-19. Enlist the types of covid -19 vaccine. (7+3)
8. Describe structure and classification of Microbes. List down the laboratory methods for identification of Microbes.

Write short note on any THREE of the following:

3 X 5 = 15

9. Types of Culture media.
10. Describe pathogenesis and laboratory diagnosis of HBV and HCV.
11. Structure of immunoglobulin (Antibody).
12. Principles of microbiology.

Write briefly on the following:

3 X 2 = 6

13. Classification of viruses.
14. Cold chain.
15. Food poisoning/ classic botulism.

Part-B (Infection Control including Safety) = 38 Marks

Choose the correct answer for the following MCQ

7 X 1 = 7

16. The most effective way to break the chain of infection is:
a) Hand hygiene b) Wearing gloves
c) Placing clients in isolation d) Providing private rooms for clients
17. Human anatomical waste is collected in which color bag
a) Red b) Yellow
c) Black d) White container
18. Which is an example of healthcare associated infection
a) Influenza b) Tuberculosis
c) surgical site infection d) Common cold
19. Endoscope is sterilized by
a) Glutaraldehyde b) Formaldehyde
c) Autoclaving d) Hot air oven
20. The emergency code for accidental fire is
a) Code black b) Code purple
c) Code blue d) Code red
21. Cross infections occurring in hospital is known as
a) Primary infection b) Secondary infection
c) Nosocomial infection d) Reinfection
22. BCG vaccine is scheduled at the age of
a) Immediately after birth b) At the age of 9 months
c) At the age of 12 months d) At the age of 5 years

Write an essay on any ONE of the following:

1 X 10 = 10

23. Define sterilization. Explain different methods of sterilization. Discuss centre for disease and prevention (CDC) guideline for effective use of Personal protective equipment (PPE). (2+4+4)

24. Define BMW. Explain about waste management process and infection prevention.

Write short note on any THREE of the following:

3 X 5 = 15

25. Type and classification of fire.

26. Define infection. Enlist role of nurse in infection control.

27. Write in detail about Hospital acquired infection.

28. Antibiotic stewardship.

Write briefly on the following:

3 X 2 = 6

29. Describe the measures to prevent surgical site infection in the hospital.

30. List the mechanism of antibiotic resistance in bacteria.

31. Asepsis.
