



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Arrear Examination – May 2025 I Semester

Batch : 2024

Major : Physician Assistant

Time: 3 Hours

Max. Marks: 100

22BPAC04 Infection Control

Course Outcomes:

1. Recognize the importance of the correct application of reprocessing methods for assuring the safety and integrity of patient care equipment.
2. Identify the individual's professional responsibility for maintaining a safe patient care environment.
3. Recognize strategies for effective pre-cleaning, chemical disinfection, and sterilization of instruments and devices.
4. Distinguish the various aseptic techniques and appraise the process of reducing risk of infection in clinical area.
5. Justify the Correct use of appropriate barrier to control infection.

Part A

10 x 1= 10

Choose the Correct Answer

1. Escherichia coli is normally seen in
a. Brain b. large intestine c. kidney d. liver CO1K1
2. The primary goal of infection control
a. Treating infections b. Preventing infections
c. Diagnosing infections d. Ignoring infections CO1K1
3. The age influence susceptibility to infections.
a. Younger individuals are more susceptible
b. Older individuals are more susceptible
c. Age has no impact on susceptibility
d. Susceptibility is the same across all age groups CO2K2
4. The sudden outbreak of disease in an unexpected amount is called as
a. Endemic b. Pandemic c. Epidemic d. Sporadic CO2K1
5. The capacity of the organisms to cause disease is called
a. Virulence b. pathogenicity c. infection d. sepsis CO3K2
6. The primary purpose of Standard Universal Precautions in healthcare settings.
a. To protect healthcare workers only
b. To prevent the spread of bloodborne pathogens
c. To minimize the use of personal protective equipment
d. To reduce the cost of healthcare services CO3K1
7. The recommended method for disposing of used needles and sharps.
a. Place them in regular trash bins b. Recap and reuse if possible
c. Discard in puncture-resistant containers d. Flush them down the toilet CO4K1
8. The chemical sterilization method commonly used for heat-sensitive medical instruments.
a. Autoclaving b. Ethylene oxide (ETO) sterilization
c. Dry heat sterilization d. Steam sterilization CO4K1
9. The purpose of wearing a gown as part of personal protective equipment (PPE)
a. To keep the healthcare worker warm
b. To protect against splashes and spills
c. To look professional
d. To hide stains on clothing CO5K2
10. The role of communication in the implementation of Standard Universal Precautions.
a. Communication is not relevant to infection control
b. Clear communication helps ensure understanding and compliance with precautions
c. Communication is only important for administrative staff
d. Communication is necessary only in emergency situations CO5K2

Part B
Answer All questions
Each answer should not exceed 400 words or two pages

5 x 6=30

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| 11.a. Explain Infection and the importance of infection control.
(or) | CO1 K1 |
| 11.b. Discuss about the Principles of infection Control. | CO1 K2 |
| 12.a. Write about the Infectious agents.
(or) | CO2 K1 |
| 12.b. List out the Environmental factor. | CO2 K2 |
| 13.a. Explain the steps of Medical Hand washing.
(or) | CO3 K2 |
| 13.b. Write in detail about Donning and doffing of Sterile glove. | CO3 K2 |
| 14.a. Write in detail about Autoclave.
(or) | CO4 K3 |
| 14.b. Explain the preventive measures for Needle stick injuries. | CO4 K4 |
| 15.a. List out the classification of disinfectant.
(or) | CO5 K1 |
| 15.b. Discuss on Methods of sterilization. | CO5 K2 |

Part C
Answer All questions
Each answer should not exceed 800 words or four pages

5 x 12 = 60

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| 16.a. State the concept of Chain of infection.
(or) | CO1 K2 |
| 16.b. Illustrate on Risk factors and Sources of infection. | CO1 K4 |
| 17.a. Explain on contamination of Environment.
(or) | CO2 K2 |
| 17.b. Write in detail about Blood Borne Infections. | CO2 K2 |
| 18.a. Describe a note on Antiseptics.
(or) | CO3 K3 |
| 18.b. Write in detail about the Causes and spread of Infection. | CO3 K2 |
| 19.a. Write essay on Decontamination and cleaning on Items.
(or) | CO4K3 |
| 19.b. Write detail about maintaining a sterile environment in a surgical procedure area. | CO4K3 |
| 20.a. Explain about surgical hand scrub and Attire.
(or) | CO5K4 |
| 20.b. Explain the Disposal of Personal Protective Equipment (PPE). | CO5K4 |
