

**091205T4PTT**

**PERI-OPERATIVE THEATRE TECHNOLOGY LEVEL 5**

**HE/OS/TT/CR/02/5/A**

**PREVENT NOSOCOMIAL INFECTIONS**

**July/August 2024**



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION  
COUNCIL (TVET CDACC)**

**WRITTEN ASSESSMENT**

**3 HOURS**

**INSTRUCTIONS TO CANDIDATE**

1. This paper consists of two sections; **A** and **B**
2. Answer **ALL** the question as guided in each section
3. Marks for each question are as indicated in the brackets
4. You are provided with a separate answer booklet to answer the questions
5. Do not write in this question paper

**This paper consists of FOUR (4) printed pages. Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

**SECTION A: (40 MARKS)**

*Answer ALL the questions in this section.*

1. Aprons should be made of waterproof material and worn full size to give maximum protection in infection prevention. State TWO situations where you may be required to don an apron. (2 Marks)
2. All instruments on the table during a surgical procedure require decontamination before use. Name FOUR processes involved in rendering the instruments safe for handling. (4 Marks)
3. Safe management of health care waste is a key issue in controlling and reducing hospital acquired infections. Justify FOUR purposes of proper waste management. (4 Marks)
4. As a theatre technician you are expected to observe measures by which microbial contamination is contained in the theatre environment. Cite any THREE key elements of asepsis in the operation theatre. (3 Marks)
5. You are the theatre technician in the Central Sterilization and Supply Department. Highlight FOUR characteristics of good instrument storage area. (4 Marks)
6. A theatre technician is involved in preparing patients scheduled for different procedures depending on the underlying urgency of the need for surgery. Name THREE types of surgeries based on urgency. (3 Marks)
7. When receiving patients in the recovery room, what two identifiers will you use to identify the patient correctly? (2 Marks)
8. Medical errors are inescapable in healthcare profession. Highlight FOUR occurrences that may contribute to such errors. (4 Marks)
9. Various sterilization methods are used in healthcare settings to ensure the safety of patients and prevent the spread of infections. State FOUR factors that determine the choices of sterilization methods. (4 Marks)
10. Laminar airflow is designed to flow uninterrupted air from the cleanest area to the less clean area into air return grilles in the lower sidewalls. State THREE physical barriers and events that interrupt airflow during a surgical procedure. (3 Marks)
11. The overall floor plan of the surgical suite is divided into three areas or zones. List FOUR areas found in the semi-restricted area. (4 Marks)

12. Infection prevention measures are crucial when moving and lifting patients in a hospital setting. Mention THREE infection prevention measures you will observe while transferring, moving, and positioning patients during perioperative care. (3 Marks)

**SECTION B: (60 MARKS)**

*Answer any **THREE** questions in this section.*

13. The use of disinfectants in the operating theatre is crucial for maintaining a sterile environment and preventing healthcare-associated infections.
- a) State **THREE** differences between antiseptics and disinfectants. (6 Marks)
  - b) Discuss **SEVEN** safety guidelines when using disinfectants. (14 Marks)
14. To prevent a surgical site infection, a comprehensive approach that involves timely diagnosis, effective treatment, rigorous infection control measures, and ongoing efforts to improve patient safety in surgical settings is required.
- a) Describe any **FIVE** key aspects of gowning a theatre technician should adhere to avoid contamination. (10 Marks)
  - b) Explain **FIVE** principles that you will apply when using the personal protective equipment (PPE). (10 Marks)
15. You have been the assistant in a caesarean -section and you are required to prepare the theatre for the next procedure in the theatre list. As you clear the waste that was generated, you sustain a needle prick injury.
- a) Describe **FIVE** ways of maintaining a clean environment in theatre. (10 Marks)
  - b) Explain **FIVE** rules to observe when handling and disposing sharps (10 Marks)
16. As a theatre technician, one of your key responsibilities is to follow the systematic assembly of surgical instruments prior to sterilization, ensuring adherence to strict guidelines for cleanliness, proper arrangement, and compatibility.
- a) Describe **THREE** packaging methods used when packaging instruments for sterilization. (6 Marks)
  - b) Describe **SEVEN** principles that should be followed before assembling instruments for sterilization. (14 Marks)

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