

091205T4PTT

PERIOPERATIVE THEATRE TECHNOLOGY LEVEL 5

HE/OS/TT/CR/03/5 /A

MAINTAIN PERIOPERATIVE THEATRE INSTRUMENTS AND APPARATUS

July/August 2024



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

WRITTEN ASSESSMENT

TIME: 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 THREE (3) printed pages.

**Candidate should check the guide to ascertain that all the pages are printed as indicated
and that no questions or answers are missing.**

SECTION A: (40 MARKS)

Answer ALL questions in this section

1. A junior staff is concerned about what is documented on the summary of operation notes. Highlight FIVE details that should be recorded in the operation notes. (5 Marks)
2. Operation involves cutting and dissecting various body structures including skeletal system. State FOUR cutting instruments. (4 Marks)
3. You have been allocated to be in charge of theatre instrument, the first responsibility you want to undertake is to manage malfunctioning instruments. Mention THREE reasons why malfunctioning instruments should be handed over to the maintenance team. (3 Marks)
4. After disinfection of instruments, inspection is necessary to ascertain that they are of good status. State FIVE aspects that you will check for while inspecting surgical instruments. (5 Marks)
5. Damage of theatre instruments is common since they are sensitive to mechanical damage. Mention FOUR causes of damage to theatre instruments. (4 Marks)
6. The process of handing over instruments to the surgeon requires clear understanding of their name and use. Classify THREE types of forceps commonly used in theatre. (3 Marks)
7. Choosing appropriate packaging material for sterilization is crucial for maintaining sterility. Outline FIVE characteristics of an ideal packaging materials and seals for sterilization. (5 Marks)
8. A surgeon has cut an artery and its bleeding profusely, he has requested for an occluding instrument. Identify FOUR examples of occluding instruments you can hand over. (4 Marks)
9. As a theatre technician you understand when disinfecting instruments, we use manufactures instruction. You are provided with 5% active chlorine solution. You are required to prepare 0.5% of chlorine for disinfection. Showing your calculation, indicate the quantity of chlorine and water you will mix. (4 Marks)
10. You preparing for sterile surgical procedure with an estimated blood loss of 800 ml. State THREE types of suction tubes you will set and indicate the function for each. (3 Marks)

SECTION B: (60 MARKS)

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

11. Theater staff are at risk of contracting diseases due presence of microorganisms in waste.
- a) Differentiate between pathological and infectious waste giving examples. (4 Marks)
 - b) Discuss FOUR risks associated with hazardous waste. (8 Marks)
 - c) Explain FOUR areas from which infectious waste can be generated. (8 Marks)
12. Sterilization should be used for surgical instruments and other items that come in direct contact with surgical incisions.
- a) Highlight FOUR drawbacks of using steam sterilization method. (4 Marks)
 - b) Explain THREE factors that determine effectiveness of a method of sterilization. (6 Marks)
 - c) Describe FIVE features of a good storage environment for surgical instruments. (10 Marks)
13. Theatre instruments and apparatus are expensive and require special handling. Discuss TEN measures put in place when handling and caring of surgical instruments and apparatus. (20 Marks)
14. The theatre technician has a responsibility to check for the functionality of apparatus and instruments before they are used in theatre.
- a) Discuss FIVE areas you will check in an anaesthetic machine. (10 Marks)
 - b) Explain FIVE precautionary measures you will take while using electrical powered instruments and apparatus. (10 Marks)

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