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PERIOPERATIVE THEATRE TECHNOLOGY LEVEL 5

HE/OS/TT/CR/04/5A

PROVIDE PERIOPERATIVE THEATRE TECHNICAL SERVICES

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 THREE (3) printed pages

**Candidates should check the question paper to ascertain that all pages are
printed as indicated and that no questions are missing**

SECTION A: (40 MARKS)

Answer ALL the questions in this section

1. To check for functionality and the condition of theatre instruments, they are inspected before packaging and sterilization. Outline FOUR areas that are inspected on theatre instruments before packing and storing them for future use after sterilization. (4 Marks)
2. To prevent eye fatigue, we should ensure adequate illumination of the surgical site. Outline FOUR qualities that the lighting used in the operating room should possess. (4 Marks)
3. Various types of gel or foam pads are included as table accessories, serving the purpose of safeguarding specific sensitive areas of the body. Briefly explain FOUR functions of the operating table accessories. (4 Marks)
4. You are working in theatre and are supposed to provide perioperative theatre services. Mention THREE types of gloves available in a theatre set up. (3 Marks)
5. After every operation, the operating theatre is cleaned ready for the next procedure. List FOUR characteristics of an ideal cleaning agent as used in cleaning of theatre environment. (4 Marks)
6. A perioperative theatre technician reviews the stages of general anesthesia with a group of students in his unit. Briefly explain the FOUR stages of general anesthesia. (4 Marks)
7. Antiseptic such as iodine is used during the skin preparation before an operation. Differentiate between two-stage skin prep and single stage prep. (2 Marks)
8. Waste segregation is quite vital in facilitating recycling and correct onward disposal. Identify FOUR types of waste that can be generated in an operating theatre. (4 Marks)
9. After an operation, theatre instruments are soiled with blood. Outline FIVE steps in the decontamination of theatre instruments. (5 Marks)
10. Diathermy machine plays important roles during surgery. Distinguish between mono-polar and bipolar electrosurgical modes. (2 Marks)
11. When packaging theatre instruments for sterilization it is important to organize instruments in a systematic manner. Outline FOUR ways followed during this process. (4 Marks)

SECTION B: (60 MARKS)

*Answer any **THREE** questions from this section*

12. After the patient leaves the operating room, the environmental service personnel should be available to perform room cleaning and documentation.
- a) Describe EIGHT ways on how you would disinfect the theatre environment in readiness for the next procedure (16 Marks)
 - b) Explain FOUR significance of documenting your perioperative theatre technical services that you are expected to offer in the operating room. (4 Marks)
13. You have reported to work on a Thursday morning at 8.00 am. The theatre list indicates a busy day with a variety of scheduled surgeries.
- a) Discuss any TEN points on how you will arrange and prepare the operation theatre prior to surgery. (10 Marks)
 - b) The different surgical procedures will require different patient positions. State any FIVE surgical positions used in theatre and examples of surgical procedures indicated for each. (10 Marks)
14. You are pretesting theatre apparatus and equipment at the start of your shift. A student technician is attached to your unit and requests you to review the principles of electro surgery with her.
- a) Outline THREE uses of electro surgery. (3 Marks)
 - b) Describe the FOUR major components of electro surgery. (12 Marks)
 - c) Explain FIVE safety measures that you will apply in use of an electrosurgical unit to prevent injury to the patient. (5 Marks)
15. You are checking the functionality of a suction machine in anticipation for surgery.
- a) Discuss FIVE areas you will focus on while checking for the functionality of the suction machine. (10 marks)
 - b) During performance check you identify that the suction machine is faulty. Explain FIVE measures that will be taken after identifying a faulty suction machine. (10 marks)

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