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HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 6

HE/OS/HR/CR/01/6

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Apply Medical Pathology

Date: 29.07.2025 07:55 AM

July/August 2025

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

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WRITTEN ASSESSMENT

Time: 3 HOURS

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INSTRUCTIONS TO CANDIDATE

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1. This paper consists of **TWO** sections: **A** and **B**.

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2. Attempt **ALL** questions in section A

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3. Attempt question **ELEVEN (11)** and **ANY OTHER TWO (2)** questions in in section B.

4. Marks for each question are indicated in the brackets.

5. Candidates are provided with a separate answer booklet.

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6. Do not write on the question paper.

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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)*Attempt ALL the questions in this section*

1. Define the following terms used in pathology:

- a) Etiology. (1 Mark)
- b) Cytopathology. (1 Mark)
- c) Edema. (1 Mark)
- d) Metastasis. (1 Mark)

2. Cancer is the leading cause of death worldwide accounting for nearly 10 million deaths in 2025. Give FOUR general risk factors for cancer. (4 Marks)

3. Microscopic analysis of cells and tissues requires the preparation of very thin, high-quality sections mounted on glass slides and appropriately stained to demonstrate normal and abnormal structures. Name FOUR types of tissue changes that can be observed. (4 Marks)

4. Shock is a state in which there is failure of the circulatory system to maintain adequate cellular perfusion resulting in widespread reduction in delivery of oxygen and other nutrients to tissues. (2 Marks)

- a) Mention TWO classifications of shock. (2 Marks)
- b) Give TWO stages of shock (2 Marks)

5. Mary developed signs of communicable disease after becoming infected by the pathogen. State FOUR ways through which this happened. (4 Marks)

6. Biopsy can be either incisional or excisional. Once the tissue is removed from the patient, it has to be immediately fixed by putting it into adequate amount of 10% Formaldehyde (10% formalin) before sending it to the pathologist. Identify FOUR purposes of tissue fixation. (4 Marks)

7. Necrosis is the death of bodily tissue often caused by injury, infection or chemical exposure. Mention FOUR types of necrosis. (4 Marks)

8. Exposure to certain factors contribute to development of diseases. Name FOUR predisposing factors to diseases. (4 Marks)

9. An average woman was admitted with history of acute Peptic ulcer disease which is caused by acidic aggravation. It occurs when open sores, or ulcers, form in the stomach or first part of the small intestine. Give FOUR risk factors of peptic ulcers disease. (4 Marks)

10. Tumors can occur in different forms. Distinguish between Benign and Malignant tumor. (4 Marks)

SECTION B (60 MARKS)

Attempt question ELEVEN (11) and any other TWO (2) questions in this section

11. In pathology, the course of a disease in the absence of any intervention is called the natural history of the disease.

- a) Explain FIVE different stages in the natural history of disease. (10 Marks)
- b) Mention FOUR causes of Infectious diseases. (4 Marks)
- c) Explain THREE factors that lead to disease recovery. (6 Marks)

12. A pathologist used the morphologic changes seen in diseases to diagnose different diseases. There are different diagnostic modalities used in pathology.

- a) Explain FIVE Diagnostic techniques used in pathology. (10 Marks)
- b) Describe FIVE types of tissue that a pathologist can examine. (10 Marks)

13. Diseases can be caused by either environmental factors, genetic factors or a combination of the two factors.

- a) Describe SIX environmental factors. (12 Marks)
- b) Explain FOUR genetic disorders. (8 Marks)

14. Stimuli Inflammation is a biological response to injury.

- a) Explain FOUR causes of inflammation. (8 Marks)
- b) Explain TWO harmful effects of acute inflammation. (4 Marks)
- c) Describe FOUR factors that delay the healing process of an injury. (8 Marks)