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HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 6

HE/OS/HR/CR/01/6

Date: 21.11.2025 07:21 AM

Apply Medical Pathology

November/December 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**.
2. Attempt **ALL** questions in section A.
3. Attempt question **TWELVE** (12) and any other **TWO** (2) questions in section B.
4. Marks for each question are indicated in the brackets.
5. Candidates are provided with a separate answer booklet
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 as used in medical pathology:

- a) **Diagnosis.** (1 Mark)
- b) **Prognosis.** (1 Mark)
- c) **Necrosis.** (1 Mark)
- d) **Etiology.** (1 Mark)

2. Cells of the human body adapt to stimuli in different ways. Identify FOUR cell adaptations in pathology. (4 Marks)

3. Ensuring safety while handling pathological specimens involves following specific precautions. Based on these safety protocols, state FOUR standard precautions when handling pathological specimens. (4 Marks)

4. A communicable disease can be transmitted from the reservoir to the host either directly or indirectly. Identify THREE modes of indirect disease transmission. (3 Marks)

5. Recognizing signs of clinical death is essential for medical practitioners in determining the end of life. Given this importance, mention THREE signs indicating clinical death. (3 Marks)

6. A disease follows a certain progression in the human body in the absence of any intervention. State FOUR stages of Natural History of a Disease. (4 Marks)

7. Pathologists employ various diagnostic techniques to accurately identify diseases. Considering their use in pathology, identify FOUR diagnostic techniques. (4 Marks)

8. Identifying risk factors for peptic ulcer disease is essential for prevention and treatment. Based on current knowledge, state FIVE risk factors of peptic ulcer disease. (5 Marks)

9. Identifying the underlying causes of hypoxia is crucial for diagnosing and treating this condition. Considering pathological conditions, mention THREE causes of hypoxia. (3 Marks)

10. The human body has to capacity to fight impending infections. Mention TWO types of immunity. (2 Marks)

11. Differentiate between Signs and Symptoms. (4 Marks)

SECTION B (60 MARKS)

Attempt question TWELVE (12) and any other TWO (2) questions in this section

12. To make a diagnosis, specimen from the patients have to be acquired for testing.

a) Explain FIVE causes of cell injury than can be detected from specimens. (10 Marks)

b) Describe FIVE reasons why pathological specimens are stored and retained. (10 Marks)

13. Mr. K presents to a facility seeking assistance for a prolonged medical issue that has affected his thigh for a long time. There is suspicion of inflammation activity.

a) Describe FIVE cardinal signs of acute inflammation observed in this patient's thigh. (10 Marks)

b) Explain FIVE beneficial effects of acute inflammation in the context of the patient's injury. (10 Marks)

14. Medical pathology entails accurate and timely diagnosis of both communicable and non-communicable diseases.

a) Explain FIVE major diagnostic techniques commonly used to make diagnosis. (10 Marks)

b) Describe FIVE reasons for keeping pathological records. (10 Marks)

15. A woman has been experiencing problems in her reproductive system and investigations are done.

a) Explain FOUR menstrual disorders that women may suffer from. (8 Marks)

b) Mention FOUR cancers that affect the female reproductive system. (4 Marks)

c) Describe FOUR risk factors associated with cancers of the female reproductive system. (8 Marks)