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COMMUNITY HEALTH LEVEL 5

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HE/OS/CH/CC/03/5

Apply Human Anatomy and Physiology

November/December 2025

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

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WRITTEN ASSESSMENT

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TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

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1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in section A and **ANY THREE (3)** questions in section B.
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet.
5. Do not write on the question paper.

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This paper consists of FOUR (4) printed pages

Candidate 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.***

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1. Urine formation involves a series of processes, List THREE processes involved.

(3 Marks)

2. Glomerular filtrate is the fluid that has passed from blood in the glomerular capillaries into the Bowman's capsule in the kidneys. Name FOUR constituents contained in it.

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(4 Marks)

3. The dermis is the most superficial layer of the skin formed by connective tissues. Record TWO structures which form it.

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(2 Marks)

4. Immunity develops as a result of administration of dead or live vaccines. Identify FOUR diseases prevented by vaccination.

(4 Marks)

5. Hypersensitivity reactions are exaggerated responses to a foreign antigen or allergen that lead to tissue damage, disease, or discomfort. Name FOUR types of reactions

(4 Marks)

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6. Record ONE function for each of the following bone cells.

(4 Marks)

- a. Osteoblasts
- b. Osteoclasts

7. Fractures occur when a force exerted against a bone is stronger than the bone itself, disrupting its structural continuity. Identify THREE classifications.

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(3 Marks)

8. Joints form a surface where articulation takes place, providing flexibility and movement of the skeleton. Identify THREE types.

(3 Marks)

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9. Record FOUR movements possible at the synovial joints.

(4 Marks)

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10. The female reproductive organs are divided into two, the internal and external organs. Identify FOUR external organs.

(4 Marks)

11. Name TWO sexually transmitted infections that can affect the male reproductive system.

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(2 Marks)

12. Connective tissues form extensive extracellular matrix with various functions in the human body. Record THREE functions.

(3 Marks)

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SECTION B (60 MARKS)

Answer any THREE questions in this section

13. The skin is one of the largest organs in the human body. It is a complex, multifunctional system vital for survival.

a) Describe FIVE functions. (10 Marks)

b) Examine FIVE disorders of the human skin. (10 Marks)

14. The digestive system performs its roles in a regulated manner ensuring that all physiological processes are taking place.

a) Describe FIVE functions of saliva. (10 Marks)

b) Using the diagram provided below, label the following parts: P, Q, R, S, T

(10 Marks)

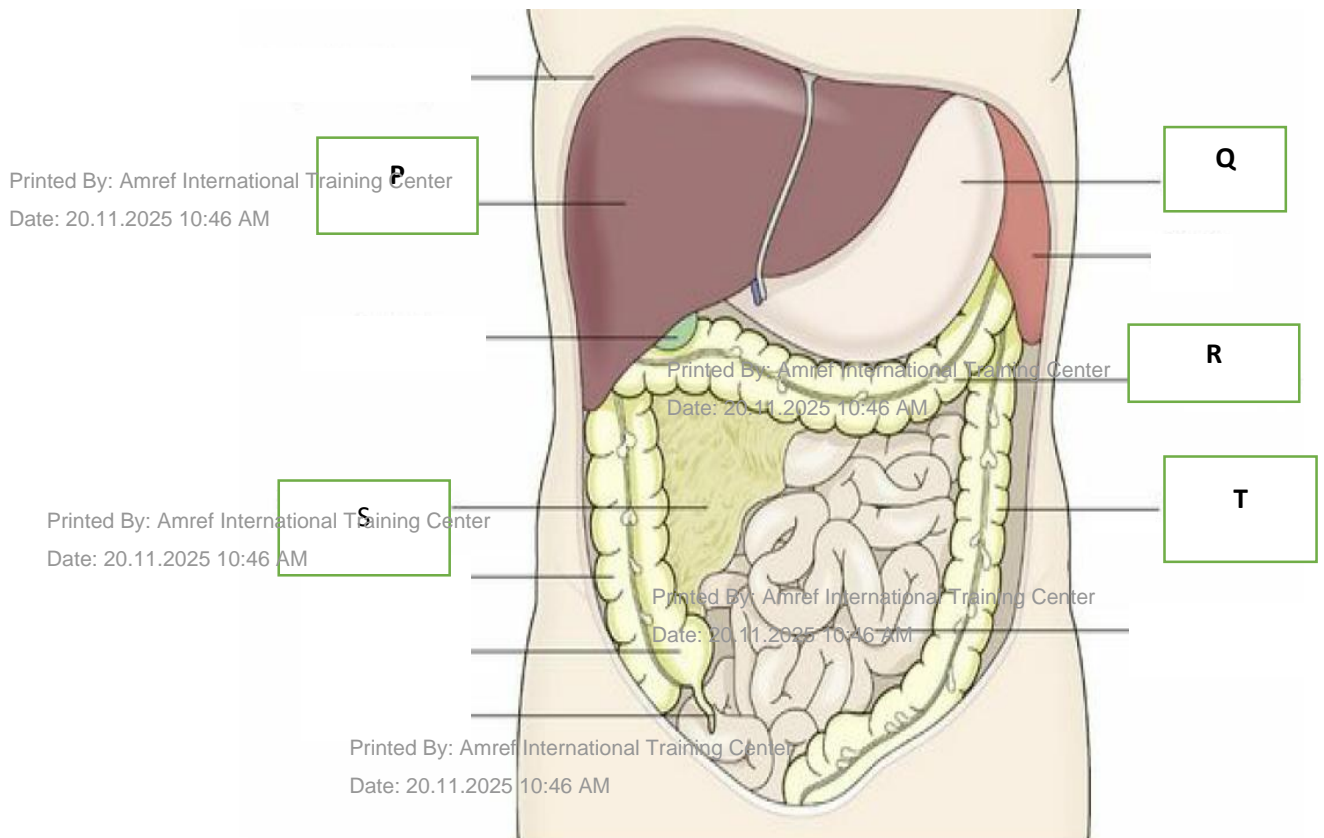


Figure 1: Waugh, A., & Grant, A. (Eds.). (2018). Ross and Wilson anatomy and physiology in health and illness (13th ed.). Elsevier

15. The lymphatic system is an integrated network working with other body systems to support normal body processes.

a) Describe FOUR functions of the spleen. (8 Marks)

b) Examine SIX organs of the lymphatic system (exclude the spleen). (12 Marks)

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16. The transformation of sensory stimulus into a perceived sensation is a complex response coordinated by the nervous system.

a) Describe FIVE Cranial nerves (10 Marks)

b) Explain one effect of autonomic sympathetic stimulation in FIVE systems of the human body. (10 Marks)

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