



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY
DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

ENVIRONMENTAL HEALTH

MODULE: Human Anatomy and Physiology

PAPER NO: 605/23/M02

DURATION: 3 Hours

NOVEMBER/DECEMBER 2025 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

Answer any five (5) questions.

QUESTION 1

- (a) Define the following terms as used in human anatomy and physiology
- | | | |
|-------|------------|-----------|
| (i) | Aerobic | (2 marks) |
| (ii) | Catabolism | (2 marks) |
| (iii) | Epithelium | (2 marks) |
| (iv) | Gamete | (2 marks) |
| (v) | Myocardium | (2 marks) |
- (b) Describe any five (5) functions of the blood. (10 marks)

QUESTION 2

- (a) Differentiate between veins, arteries and capillaries. (12 marks)
- (b) Explain any four (4) functions of cerebro-spinal fluid. (8 marks)

QUESTION 3

- (a) Outline any six (6) causes of infertility in males. (6 marks)
- (b) Explain the disorders of excessive thyroxine hormone secretion. (10 marks)
- (c) Identify the hormones that regulate the menstrual cycle. (4 marks)

QUESTION 4

- (a) Describe the movement of an impulse across a cholinergic synapse. (10 marks)
- (b) Discuss the general properties of muscles. (10 marks)

QUESTION 5

- (a) Explain the mechanism of pulmonary circulation. (10 marks)
- (b) Describe the blood clotting mechanism. (10 marks)

QUESTION 6

- (a) Differentiate between a prokaryotic and eukaryotic cell. (14 marks)
- (b) Outline six (6) functions of hormones in the human body. (6 marks)

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