

Examination No.

OFFICE OF THE TLC

Signature

UGANDA HEALTH PROFESSIONS ASSESSMENT BOARD
YEAR 1: SEMESTER 1: EXAMINATIONS

CERTIFICATE IN NURSING

Anatomy and Physiology I, and First Aid
Paper Code: CN 111

June 2025

3 HOURS

IMPORTANT

1. Write your examination number on the question paper and answer sheets
2. Read the questions carefully and answer **only** what has been asked in the question
3. Answer all the questions
4. The paper has three sections

For Examiner's use only

Section	Qn.	Result	Initials
A	MCQs		
	Fill in		
B	31		
	32		
C	33		
	34		
Total			

Section A: Objective questions.

Section B: Short essay questions.

Section C: Long essay questions.

Turn over

UHPAB

1

SECTION A: Objective Questions

Circle the correct answer (20 marks)

1. The study of the function and structure of the cells is
(a) Histology.
(b) Cytology.
(c) Physiology.
(d) Immunology.
2. Any part of the human body that is away from the middle line is said to be
(a) lateral.
(b) medial.
(c) distal.
(d) superior.
3. Which of the following cell organelles is directly associated with cell division?
(a) Golgi apparatus.
(b) Ribosomes.
(c) Centrioles.
(d) Lysosomes.
4. Which of the following are the major structural parts of the human cell?
(a) Cell membrane, nucleus, cytoplasm.
(b) Nucleus, cell wall, mitochondria.
(c) Cytoplasm, endoplasmic reticulum, nucleus.
(d) Ribosomes, cell membrane, golgi apparatus.
5. Which of the following blood group is least common in the human race?
(a) A.
(b) B.
(c) O.
(d) AB.
6. Which of the following valves is located between the right atrium and right ventricle?
(a) Bicuspid.
(b) Tricuspid.
(c) Aortic.
(d) Pulmonary.

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2

7. The amount of blood ejected out of the heart per minute is referred to as the
(a) stroke volume.
(b) ejection fraction.
(c) cardiac output.
(d) blood pressure.
8. Pulse in adults is commonly detected from the artery.
(a) ulna.
(b) femoral.
(c) jugular.
(d) radial.
9. The gall bladder mainly functions to bile.
(a) store.
(b) secrete.
(c) activate.
(d) dilute.
10. Which of the following is the most superior part of the stomach?
(a) Curvature.
(b) Fundus.
(c) Pyloric region.
(d) Cardiac part.
11. The S-shaped part of the colon is known as
(a) ascending.
(b) transverse.
(c) descending.
(d) sigmoid.
12. The function of osteoblasts is to
(a) tear down bones.
(b) absorb calcium.
(c) build new bones.
(d) stimulate calcium production.

13. Which of the following is the primary component of the skeleton?
(a) Synovial fluid.
(b) Cartilage.
(c) Bones.
(d) Ligament.
14. The largest muscle that forms the fleshy part of the buttocks is
(a) Gluteal.
(b) Sartorius.
(c) Psoas.
(d) Hamstrings.
15. Which of the following muscles is non-striated?
(a) Cardiac.
(b) Skeleton.
(c) Smooth.
(d) Triceps.
16. Which of the following is NOT the responsibility of a first aider? To
(a) arrive at the right provisional diagnosis.
(b) provide transport to hospital.
(c) assess the situation of the client.
(d) give immediate treatment.
17. Clinical features of severe bleeding include
(a) hyperthermia.
(b) alertness.
(c) shock.
(d) hyperglycemia.
18. The primary principle of first aid is to
(a) calm the situation.
(b) conserve the life.
(c) prevent deterioration.
(d) apply treatment.

19. The fracture of the wrist is referred to as fracture.

- (a) open.
- (b) simple.
- (c) communitied.
- (d) Colle's.

20. The protective gear most commonly used by a first aider is

- (a) gloves.
- (b) apron.
- (c) mask.
- (d) gumboots.

Fill in the blank spaces (10 marks)

- 21. The basic unit of life is called.....
- 22. The epithelial cells responsible for mucus production are known as
- 23. The process of red blood cell formation is called.....
- 24. Movement of blood to the lungs for oxygenation and back to the heart is called
- 25. The movement that propels food from the oesophagus to the stomach is known as
- 26. A prominent bony projection is called.....
- 27. The muscle of the upper arm commonly used for vaccination is called
- 28. The chamber of the heart responsible for pumping oxygenated blood to the rest of the body is called
- 29. The initial assistance given to a person who is injured is referred to as
- 30. The life saving technique performed to relieve an adult with chocking is called

Answer Sections B and C in the answer booklets provided

SECTION B: Short Essay Questions (20 marks)

- 31. (a) State five (5) key features on the gross anatomy of the stomach. (5 marks)
- (b) List five (5) functions of skeletal muscles. (5 marks)
- 32. (a) State four (4) organs of the lymphatic system. (4 marks)
- (b) List six (6) signs and symptoms of shock. (6 marks)

SECTION C: Long Essay Questions (50 marks)

- 33. (a) Describe the process of development of a long bone. (10 marks)
- (b) Outline ten (10) actions performed during first aid management of a casualty with open fracture of tibia/fibula following a road traffic accident. (10 marks)
- (c) State five (5) complications of fractures. (5 marks)
- 34. (a) Describe five (5) plasma components of blood. (10 marks)
- (b) Describe the three (3) layers of the heart. (10 marks)
- (c) State five (5) actions first aiders perform for a patient experiencing a heart attack. (5 marks)

END