



NATIONAL OPEN UNIVERSITY OF NIGERIA  
91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja  
FACULTY OF HEALTH SCIENCES  
January-March 2018 Examination

Programme: PGD HIV/AIDS Management

Course Code: HEM 704

Course Title: **Basic Anatomy and Physiology of Human Body**

Time allowed: 2 HOURS

Instruction: **ANSWER QUESTION ONE (1) AND ANY TWO (2) QUESTIONS ONLY.**

- 1a. Outline the major divisions of anatomy and physiology. [7 Marks]
- b. Write short notes on the following terms:
- |                          |                |                |
|--------------------------|----------------|----------------|
| (i) Microscopic anatomy  | (ii) Histology | (iii) Cytology |
| (iv) Macroscopic anatomy | (v) Embryology |                |
- [5 Marks]
- c. Describe five (5) components of the cardiovascular system. [10 Marks]
- d. In a tabular form, differentiate between simple *leucocytes* and *erythrocytes* [8 Marks]
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- 2a. (i) Briefly explain four (4) functions of the skin. [4 Marks]
- (ii) Outline the four (4) components of the axial and appendicular skeleton. [4 Marks]
- b. Using bullet points, describe blood circulation within the heart. [8 Marks]
- c. (i) What are hormones? [2 Marks]
- (ii) Mention any two (2) parts of the Hindbrain. [2 Marks]
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- 3a. Outline four (4) organs for digestion and absorption in man [4 Marks]
- b. Explain the process of digestion in man. [8 Marks]
- c. Explain the functions of the following parts of the brain:
- |              |                   |                     |                    |
|--------------|-------------------|---------------------|--------------------|
| (i) Cerebrum | (ii) Frontal lobe | (iii) Parietal lobe | (iv) Temporal lobe |
|--------------|-------------------|---------------------|--------------------|
- [8 Marks]
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- 4a. (i) Enumerate three (3) major functions of the kidneys. [3 Marks]
- (ii) Mention the major mechanism regulating Glomerular Filtration Rate (GFR). [3 Marks]
- b. List the four (4) major organs of the urinary system [4 Marks]
- c. (i) List four (4) male reproductive hormones and state their functions. [4 Marks]
- (ii) Outline six (6) female reproductive organs and state their functions. [6 Marks]