



**AFRICA
UNIVERSITY**

(A United Methodist-Related Institution)

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF PUBLIC HEALTH AND NURSING

NSNS 324: HUMAN PHYSIOLOGY

END OF SEMESTER EXAMINATION

NOVEMBER/DECEMBER 2023

LECTURER: DR A KAPFUNDE

DURATION: 3HOURS

INSTRUCTIONS

Answer Any 4 questions

The mark allocation for each question is indicated at the end of the question

Credit will be given for logical, systematic and neat presentations

QUESTION 1**(25marks)**

The respiratory system is a vital system of a human body.

Describe the mechanism of respiration which occurs in adults.

QUESTION 2**(25 marks)**

Maintenance of an optimal blood pressure is influenced by several interplays within the human body. Describe the following factors giving how they influence the variabilities in blood pressure levels: -

- a. Elasticity of the vessel walls
- b. The pumping action of the heart.
- c. Peripheral resistance
- d. Blood volume
- e. Viscosity of the blood.

QUESTION 3**(25marks)**

The autonomic nervous system controls and coordinate body function.

Discuss how the Autonomic nervous system controls body functions.

QUESTION 4**(25 marks).**

Homeostasis is the body's ability to maintain relatively stable internal conditions even though the outside world is continuously changing. Explain the elements of a homeostatic control system.

QUESTION 5**(25 marks).**

Describe the female reproductive cycle and the hormones involved.

END OF PAPER