



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NSNS 322: BISCSCIENCES

END OF FIRST SEMESTER FINAL EXAMINATIONS

APRIL/MAY 2022

LECTURER: DR. S CHITUKU

DURATION: 3 HRS

INSTRUCTIONS

Answer any **four (4)** questions

Each question carries equal marks (25).

DO NOT repeat material.

Question 1

- a. Describe how genetics influence health. (5)
- b. Outline the distribution of total body H₂O (TWB) in the body (10)
- c. Explain how body is protected by a complex system of defenses that prevent assault from pathogenic microbes. (10)

Question 2

- a. What is the probability of a couple having a boy? Or a girl? Explain with an aid of a punnet box (10)
- b. List the ionic composition of different body compartments (15)

Question. 3

- a. Outline the pathophysiology of diabetes mellitus. (10)
- b. Describe the nursing management of a patient admitted in coma due to hyperglycaemia using three prioritized nursing diagnoses. (15)

Question 4

- a. Write notes on haemophilia giving emphasis on the causes. (15)
- b. Explain the principles of measurements (10)

Question 5

Outline the modes of microorganism transmission. (25)

END OF PAPER