



“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 the emerging infectious diseases (10)
- b. Explain the distribution of total body H₂O (TBW) in the body (5)
- c. The body is protected by a complex system of defenses that prevent assault from pathogenic microbes. (10)

Question 2

- a. Discuss how genetics influence health. (10)
- b. Describe the importance of carbon dioxide and oxygen in the control of ventilation (15)

Question 3

What is the probability of a couple having a boy? Or a girl? Explain with an aid of a punnet box (25).

Question 4

A 13 year old boy is admitted in the emergency room with an asthmatic attack.

- i) Describe the pathophysiology of asthma. (10)
- ii) Formulate three priority nursing diagnosis and describe the nursing interventions to be implemented on this child. (15)

Question 5

- a. Outline the classification of microorganisms. (15)
- b. Explain how microbes must enter our bodies to cause infection. (10)

END OF PAPER