NATIONAL OPEN UNIVESITY OF NIGERIA
Faculty of Agricultural Sciences
Department of Animal Science and Fisheries
POP Examination, 2020 A

Course: ANP314: Environment and Animal Production
Credit Unit: 2
Time Allowed: 2 hours.

INSTRUCTIONS: **Answer question one (Compulsory: 25 Marks) and any other THREE (15 marks each)**

QUESTION ONE

i.   Define the concept of natural environment
ii.   Enumerate the two distinguished components of natural environment
iii.   Clearly state the four (4) sphere of natural environment generally recognized by earth science.
iv.   Write short notes on five division of earth's atmosphere that determines whether temperature increases or decreases with altitude.   **15 marks**

QUESTION TWO

i.   Define the concept of global ocean
ii.   Highlight the distinguishing characteristics of an ocean
iii.   Itemize the major oceanic divisions demarcated by the different continents, various archipelagos and other criteria.   **15 marks**

QUESTION THREE

i.   What are the recent collaboration initiative to address climate change and global warming upon the planet, its natural environment and humans' existence?
ii.   Discuss briefly three (3) concepts of global biogeochemical cycles with particular reference to water, oxygen, carbon, nitrogen and phosphorus critical to life.
        15 marks

QUESTION FOUR

i.   Define the concept of Environmental Degradation?
ii.   Enumerate six (6) objectives that environmental scientists commonly expressed as their goals that must be achieved.
iii.   Climate change has been acclaimed to affect livestock both directly and indirectly. Highlight the impact of climate change on animal production.
        15 marks

QUESTION FIVE

i. In what ways does climate change affected Animal health in your area? 4 marks

ii. Highlight ten (11) traditional and modern coping strategies that farmers often adopt to protect and sustain livestock production in the face of climate change **15 marks**

QUESTION SIX

i. Define the term Pollution**?**

ii. What are the different types of pollution that affect the ecosystem?

iii. Highlight the six major types of air pollutants.

iv. State three (3) examples of water pollution and the control measures **15 marks**