

NATIONAL OPEN UNIVERSITY OF NIGERIA

91Cadastral Zone, NnamdiAzikwe Expressway, Jabi, Abuja

FACULTY OF EDUCATION

SEMESTER EXAMINATION 2017_2

COURSE CODESED 421

CODE TITLE: CYCLES IN NATURE – BIOLOGICAL CYCLES

CREDIT UNIT: 2

Time: 2 hours

INSTRUCTION: ANSWER QUESTION ONE AND THREE OTHER QUESTIONS.

QUESTION ONE IS COMPULSORY

Question 1

- Explain the four major transformations that atmospheric Nitrogen can undergo. (12 Marks)
- State at least two (2) human activities that have significant impact on the Nitrogen cycle. (2 Marks)
- List and discuss at least five (5) human activities that alter the Water cycle.(5 Marks)
- Briefly discuss the essential features of the arid climate.(6 Marks)

25marks

Question 2

- Briefly explain the Carbon cycle. (10 Marks)
- Discuss at least three (3) human activities that lead to increase of Carbon dioxide in the atmosphere.(3 Marks)
- Give two (2) reasons why it is important for one to know his/her biorhythm cycle. (2 Marks)

15marks

Question 3

- What is Atmospheric Chemistry? (3 Marks)
- Explain the three (3) central elements in Atmospheric Chemistry.(9 Marks)
- List the main features of Plate tectonics. (3 Marks)

15marks

Question 4

- Explain the meaning of Karst (2 Marks)
- Briefly discuss the Karst cycle of erosion (9 Marks)
- List the conditions necessary for full development of Karst topography (4 Marks)

15marks

Question 5

- Briefly explain what you understand by Ocean Waves (2 Marks)

- b. List the various classes of Ocean currents. (3 Marks)
- c. Describe the materials used for the manufacture of Canoe . (10 Marks)

15marks