

NATIONAL OPEN UNIVERSITY OF NIGERIA 91Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF EDUCATION 2021 1

COURSE CODE: SED421

CODE TITLE: CYCLES IN NATURE (BIOLOGICAL CYCLE)

CREDIT UNIT: 2

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer questions ONE and any other Two (2) questions

QUESTIONS

- 1 (a) As the invited guest in a seminar organized by science teachers, how would you systematically explain the linkages in a food web? (6marks)
- 1(b) In a tabular form, write three (3) differences between food chain and food web. (9marks)
- 1(c) Itemise four (4) different kinds of feeding relations in an ecosystem. (5marks)
- 1(d) Highlight the four (4) main stages recognized in the tectonic development (10marks)
- 2(a) Enumerate any Eight (8) different processes that lead to movements and phase changes in water. (8marks)
- 2(b) Vividly explain any six (6) different processes that lead to movements and phase changes in water. (12marks)
- 3(a) Highlight eight (8) human activities that alter the water cycle. (10 marks)
- 3(b) How would you describe sewage treatment works for Integrated Science student in their upcoming conference? (5marks)
- 3(c)As a science educator, vividly define entropy to your classmates who have difficulty in understanding the concept entropy. (5marks)
- 4(a)State the four distinct processes exhibited by Diesel cycle. (8marks)
- 4(b) You are invited to the science exhibition that was organized by the Integrated science student how would you explain the steps involved in the Carnot cycle when acting as a heat engine? (12marks)