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## NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91 Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja.

## **FACULTY OF EDUCATION**

**2020 1 Semester** 

**COURSE CODE: SED421** 

COURSE TITLE: CYCLES IN NATURE-BIOLOGICAL CYCLES

**CREDIT UNIT: 2** 

TIME ALLOWED: 2 HOURS

**INSTRUCTION:** Answer Question One and any Other Two

- 1. (a) Briefly explain the process of denitrification. 10 marks
  - (b) Describe the water cycle. 15 marks
  - (c) Identify 5 processes in the movement and phase changes in water. **5 marks** (Total=30marks)
- 2. (a) i. What is atmospheric Photochemistry? 5 marks
  - ii. Mention 5 problems atmospheric chemistry seeks to address. 5 marks
  - (b) Briefly explain any 2 central elements of atmospheric chemistry. 10 marks
- 3. (a) Define the term Biorhythms. 2 marks
  - (b) Explain Physical, Emotional and Intellectual Biorhythms cycles. 18 marks
- 4. (a) Identify any five (5) features of progressive ocean waves. 5 marks
  - (b) Briefly explain any five (5) stages of the Hydrological Cycle. 15 marks