

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION  
(ARTS)**

**PGEO 231: EARTH'S PHYSICAL & BIOLOGICAL GEOGRAPHY**

**STREAMS: B.ED (ARTS)**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 07/08/2018**

**8.30 A.M. – 10.30 A.M.**

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**INSTRUCTIONS:**

- **Answer questions ONE and TWO other questions.**
- **Sketch maps and diagrams may be used to illustrate your answer.**

1. (a) Use examples to explain the following concepts:
    - (i) River basin (6 marks)
    - (ii) River pattern (9 marks)

(b) Analyze the erosion and deforestation processes in a given channel. (15 marks)
  2. With the aid of a diagram discuss the inputs, transfers and stages points in a hydrological cycle. (20 marks)
  3. Explain the processes leading to the formation of the following features:
    - (i) Waterfalls. (5 marks)
    - (ii) O4-low lakes (7 marks)
    - (iii) Deltas (8 marks)
  4. Show how you can explain the formation of spits, wave-cut platforms and fringing reefs. (20 marks)
  5. Distinguish between structure and functions in an ecosystem. (20 marks)
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