

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF ARTS IN EDUCATION**

**GEOG 412: COASTAL GEOMORPHOLOGY**

**STREAMS:**

**TIME:2 HOURS**

**DAY/DATE: THURSDAY 13/04/2023**

**2.30 P.M. –4.30 P.M.**

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**INSTRUCTIONS**

- Answer question ONE and any other TWO questions.
- Use illustrations and sketches to clarify your answers.

1. a) Distinguish and explain between isostatic and eustatic sea level changes. (10 marks)  
b) Outline the major processes and the features resulting from plunging breakers and spilling breakers along the southern coast of Kenya. (20 marks)
  2. Explain the role of rock formation in the development of shoreline erosional features. (20 marks)
  3. Describe the factors which determine the causes and energy of waves and ocean currents. (20 marks)
  4. Discuss the processes leading to the formation of the following features:
    - a) Spits and tombolo (10 marks)
    - b) Caves, arches, stacks and stumps (10 marks)
  5. Use actual examples to illustrate how waves and ocean currents affect the climates of the coastal landforms. (20 marks)
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