

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 102: INTRODUCTION TO PHYSICAL ENVIRONMENT

STREAMS: BSC (ENSC) Y1S2

TIME: 2 HOURS

DAY/DATE: MONDAY 29/03/2021

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- Answer section ONE and ANY TWO from SECTION B.
- Do not write anything on the question paper.

SECTION A (30 MARKS)

1. Briefly describe the Earth's energy balance. (4 marks)
2. Mention any four types of physical weathering. (4 marks)
3. Briefly explain four ways by which human activities can adversely affect the carbon cycle. (4 marks)
4. Write short notes on
 - (a) Uniformitarianism (3 marks)
 - (b) Plutons (3 marks)
5. Briefly discuss the conditions required for folding to occur. (6 marks)
6. Differentiate dip-slip faults from strike-slip faults. (6 marks)

SECTION B (40 MARKS)

7. (a) Explain the thermal stratification of deep-water bodies. (12 marks)

- (b) Describe the physical structure on the earth's internal structure. (8 marks)
8. (a) With an illustration, describe the hydrological cycle. (12 marks)
- (b) Elaborate on the four forces that drive winds. (8 marks)
9. (a) Discuss Moist Subtropical mid-Latitude Climates (C). (12 marks)
- (b) Explain the features of tropical savanna. (8 marks)
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