



**COLLEGE OF SOCIAL SCIENCES, THEOLOGY,
HUMANITIES & EDUCATION**

**HES321: ADVANCED STUDIES IN GEOMORPHOLOGY & SOIL
STUDIES**

END OF SECOND SEMESTER EXAMINATIONS

JANUARY/ JUNE 2021

LECTURER: MS. B. BOLO

DURATION: 7 HRS

INSTRUCTIONS

Write your registration number on the answer sheet.

Answer (fully) any ONE question of your choice.

Each full question carries 100 marks.

Your full answer should be between 10- and 15-pages

Font: Times New Roman, Font size 12, Line space:2.0.

Credit is given for neat, well-written and lucid work.

Question One

- (a) Illuminate how ocean currents and waves produce landforms? **(10 marks)**
- (b) Demonstrate your understanding the concept of soil erosion agents placing more emphasis on the importance of slope gradient in predicting soil erosion on hillslopes **(20 marks)**
- (c) Discuss the pros and cons of a 'systems approach' in geomorphology **(30 marks)**
- (d) Examine approaches that are addressed under Geomorphology **(40 marks)**

Question Two

- (a) Explain the landforms associated with folding. **(10 marks)**
- (b) Discuss the importance of soil fertility and texture with reference to clay and sand **(20 marks)**
- (c) Discuss the extent to which humans act as geomorphic agents **(30 marks)**
- (d) Use specific examples to illustrate why some research studies have concluded that geomorphology has the future **(40 marks)**

Question Three

- (a) Describe the structural landforms associated with rifting **(10 marks)**
- (b) Demonstrate how you would help laypersons to internalise the fundamentals of the soil forming processes and soil forming factors. **(20 marks)**
- (c) Assess the significance of early ideas in geomorphology to modern day societies **(30 marks)**
- (e) Examine the factors that determine the major relief features of the Earth's surface. **(40 marks)**