

"Investing in Africa's Future"

COLLEGE OF SOCIAL SCIENCES, THEOLOGY HUMANITIES AND EDUCATION DEPARTMENT OF SOCIAL SCIENCES

HES 221 INRODUCTION TO EARTH'S ENVIRONMENTS END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER/DECEMBER 2018

LECTURER: G. R. CHIMONYO

DURATION: THREE HOURS

INSTRUCTIONS

- 1. Do NOT write your name on the answer sheet
- 2. Use answer sheets provided
- 3. Answer any THREE (3) questions
- **4.** Read and understand all questions and instructions before your answer
- **5.** •Where necessary, illustrate your answers with sketches, figures and diagrams
- 6. Each question is marked out of 20 marks
- 7. Take note of mark distribution in each question
- 8. Begin your answer for each question on a new page
- 9. Credit is given to neat presentation of answers

Question One

Give an explanation of any four environmental systems the you know citing specific examples from the physical environment.

Question Two

Explain the temperature stratification of the atmosphere, illustrating you answer with a diagram.

Question Three

Examine the importance of drainage basin surface cover materials on the drainage basin hydrological cycle.

Question Four

'Climate is the most important factor in the formation of the soil profile.' Discuss this statement in relation to factors affecting soil formation.

Question Five

Give an appraisal of the Davisian Cycle of erosion.

Question Six

Give a reasoned account of the role of the following processes in the shortwave radiation budget and balance:

- i. Scattering
- ii. Reflection
- iii. Absorption

END OF QUESTION PAPER