



**THE KENYA POLYTECHNIC UNIVERSITY
COLLEGE**

DEPARTMENT OF SURVEYING & MAPPING

DIPLOMA IN LAND SURVEY

END OF YEAR I EXAMINATIONS

NOVEMBER 2007

GEOGRAPHY

3 HOURS

INSTRUCTIONS TO CANDIDATES:

You should have the following for this examination:

Answer booklet

Scientific calculator

Answer any FIVE of the following EIGHT questions.

Use neat sketches where applicable.

All questions carry equal marks and the maximum marks for each part of a question are as shown.

This paper consists of 2 printed pages.

© 2007, The Kenya Polytechnic Examinations Office

1. Explain the proofs that explain the facts that the earth is spherical in shape. (20 marks)
2. With diagrams explain FIVE coastal erosional features. (20 marks)
3. (a) Define the term glacier. (5 marks)
(b) With diagrams explain glacial erosional features in the highland. (10 marks)
(c) State the economic importance of glaciation. (5 marks)
4. With the aid of diagrams, explain wind depositional features in the desert. (20 marks)
5. (a) Explain the factors that influence soil formation. (12 marks)
(b) Using diagrams, differentiate the following:
 - (i) Permeability and porosity (4 marks)
 - (ii) Soil profile and soil catena (4 marks)
6. (a) With the aid of diagrams, explain FIVE volcanic features. (15 marks)
(b) State the economic importance of volcanicity. (5 marks)
7. (a) Explain the characteristic of savannah desert climate. (10 marks)
(b) With the aid of a diagram explain the mountain vegetation. (10 marks)
8. Explain the factors that influence vegetation distribution in the world. (20 marks)