

**BURETI JOINT EVALUATION TEST**  
**Kenya Certificate of Secondary Education (KCSE)**  
**312/1**  
**GEOGRAPHY**  
**PAPER 1**  
**2 ¼ hours**

**SECTION A**

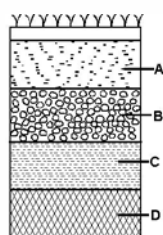
**Answer ALL questions in this section**

1. Explain the **two** relationships between geography and physics. (4 marks)
2. State **five** proofs that the earth is spherical. (5 marks)
3. a) What is an air mass. (2 marks)
- b) Give **four** characteristics of the intertropical convergence zone (ITCZ). (4 marks)
4. a) Differentiate between hot springs and geysers. (2 marks)
- b) State **three** ways by which calderas may be formed. (3 marks)
5. a) What is green house effect. (2 marks)
- b) Give three gases contributing to green house effect. (3 marks)

**SECTION B**

**Answer question 6 and ANY OTHER TWO questions in this section**

6. a) Study the map of Busia 1:50,000 (sheet 101/1) provided and answer the following questions.
  - i) What is the title of the map? (1 mark)
  - ii) Give the height of the highest point in the area covered by the map. (2 marks)
  - iii) Calculate the latitudinal extent of the area covered by the map. (2 marks)
  - iv) Identify **three** human made features on grid square 3836. (3 marks)
- b) Citing evidence, give **three** economic activities carried out in the area covered by the map. (3 marks)
- c) Explain **four** reasons why the region to the west of easting 27 is densely settled. (8 marks)
- d) Describe the drainage of the area covered by the map. (6 marks)
7. a) Differentiate between river capture and river rejuvenation (2 marks)
- b) i) State **three** factors which facilitate river erosion. (3 marks)
- ii) Name two types of deltas (2 marks)
- c) With the aid of well labelled diagrams, describe how ox-bow lakes are formed. (8 marks)
- d) i) What are rivers braids. (2 marks)
- ii) Describe **four** processes through which a river transports its load. (8 marks)
8. a) What is natural vegetation? (2 marks)
- b) i) Give the type of grassland vegetation found in the following countries.
  - New Zealand
  - Argentina
  - South Africa.
- ii) Describe the characteristics of tropical rainforests vegetation. (6 marks)
- c) Explain **four** uses of mountain vegetation. (8 marks)
- d) You are to carry out a field study on the forest vegetation around Mau region.
  - i) State **two** reasons why it is necessary to have route map. (2 marks)
  - ii) Give **two** reasons why you need a tape measure. (2 marks)
  - iii) Identify **two** challenges you might encounter during the course of the field study. (2 marks)
9. a) i) What is a soil. (2 marks)
- ii) Give **three** components of soil. (3 marks)
- b) The diagram below shows different layers of soil. use it to answer question b(i), (ii), (iii)



- i) Name the soil layers B,C,D (3 marks)
- ii) Give two main processes of soil formation which takes place in horizon A. (2 marks)
- iii) State four characteristics of soil in horizon B. (4 marks)
- c) Explain how the following helps in maintenance of soil fertility and quality.
  - Crop rotation (2 marks)
  - Mixed farming (2 marks)
  - Bush fallowing (2 marks)
- d) State five significance of soils to human activities. (5 marks)
10. a) What is a lake. (2 marks)
- b) i) Name two saline lakes within the Rift valley of Kenya. (2 marks)
- ii) Explain four reasons why some lakes within the R. Valley have fresh water. (8 marks)
- c) Explain three negative significance of lakes to human activities. (6 marks)
- d) Form three students of Butuk secondary school carried out a field study around lake Victoria .
  - i) Name the type of breeze they most likely experienced. (1 mark)
  - ii) Give two economic activities (2 marks)
  - iii) State two methods they used in recording data. (2 marks)

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**PAPER 2**  
**2 ¼ hours**

**SECTION A**

Answer ALL questions in this section.

1. a) Name two ports through which some minerals mined in East Africa are exported. (2 marks)  
 b) State three ways in which mining derelicts can be reclaimed. (3 marks)
2. a) What is biogas? (2 marks)  
 b) State three advantages of Uranium as a source of power. (3 marks)
3. a) State three reasons why the Northern part of Kenya is sparsely populated. (3 marks)  
 b) Give two types of information that can be obtained from a population pyramid. (2 marks)
4. a) What is urbanisation? (2 marks)  
 b) State three factors that favoured the growth of Eldoret town. (3 marks)
5. a) Define horticulture. (2 marks)  
 b) List three characteristics of horticulture. (3 marks)

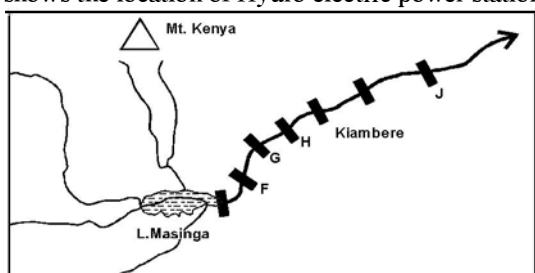
**SECTION B**

Answer question 6 and any OTHER TWO questions in this section.

6. The data given shows world cocoa production from West African countries.

Country	Percentage
Ghana	26.1
Nigeria	24.9
Cameroon	18.2
Cote d'Ivoire	11.6
Others	19.2

- a) Draw a pie chart to represent the data. Show your calculations. (6 marks)
- b) List two advantages of using a pie chart to represent data. (2 marks)
- c) i) Name two ports through which Ghana exports its cocoa. (2 marks)  
 ii) State three physical conditions that favour the production of cocoa in Ghana. (3 marks)
- d) i) Describe the growing of cocoa under the following sub headings. (3 marks)  
 Cultivation. (3 marks)  
 Harvesting and processing. (4 marks)  
 ii) Give five problems facing cocoa growing in Ghana (5 marks)
7. a) i) Name **three** agricultural non food processing industries in Kenya. (4 marks)  
 ii) State **four** ways in which Kenya has benefited from the motor vehicles industry. (4 marks)  
 b) Explain **three** problems arising from industrialization in Kenya. (6 marks)  
 c) Explain **three** factors that favoured the establishment of the electronics industry in Japan. (6 marks)  
 d) You intend to carry out a field study on Jua Kali industries in your local market.  
 i) State **two** reasons why it will be necessary for you to visit the area of study in advance. (2 marks)  
 ii) For your field study, you have prepared a work schedule. State two items you could include in the schedule. (2 marks)  
 iii) Give **two** advantages of studying Jua Kali industries through field study. (2 marks)
8. a) i) Define the term energy. (2 marks)  
 ii) Identify the type of energy from the following sources. (2 marks)  
 a) sun (1 mark)  
 b) uranium (1 mark)  
 c) wind (1 mark)
- b) The diagram below shows the location of Hydro electric power stations in Kenya. Use it to answer questions below.



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- i) Name the HEP projects F, G, H. (3 marks)
- ii) Name the proposed dam and power station marked J. (1 mark)
- c) i) Explain **three** benefits of hydro electric power projects to the economies of the East African countries. (6 marks)
- ii) Explain two physical factors that have influenced the location of the Owen falls hydroelectric power project in Uganda. (4 marks)
- iii) Apart from Owen falls dam, name two other hydroelectric power projects in Uganda. (2 marks)
- d) Your geography class intends to carry out a field study at Olkaria geothermal power plant.
- i) State **two** objectives of your study. (2 marks)
- ii) What **two** follow-up activities are they likely to engage in after the study. (2 marks)
9. a) i) Apart from draining swamps, give two other methods through which land has been reclaimed in Kenya. (2 marks)
- ii) Give **two** methods that are used to drain swamps in Kenya. (2 marks)
- b) i) Name **two** rivers that supply water to the Mwea irrigation scheme (2 marks)
- ii) Explain how the following factors influenced the establishment of Mwea irrigation scheme.
- Topography (2 marks)
  - Soils (2 marks)
  - Population (2 marks)
  - Government policy (2 marks)
- c) i) Name **three** areas that make up the Zuider zee reclamation project in the Netherlands. (3 marks)
- ii) Explain **four** differences between reclamation in Kenya and the Netherlands. (8 marks)
10. a) i) Differentiate between a settlement pattern and a settlement. (2 marks)
- ii) Apart from dispersed and nucleated settlement, name **two** other types of settlements. (2 marks)
- b) State **three** factors that may lead to :
- i) Nucleated settlement (3 marks)
- ii) Dispersed settlement. (3 marks)
- c) i) State **three** characteristics of the Central Business District. (3 marks)
- ii) Explain **three** problems Mombasa faces as it grows. (6 marks)
- d) With relevant examples, state **six** functions of New York city. (6 marks)