**End of term I 2021**

**Geography paper 312/2**

**Form IV**

**Time 23/4 hours**

**Kenya certificate secondary education (KCSE)**

**Name ------------------------------------------ Index No. --------------------**

**Date ---------------------------------- Signature -----------------------**

This paper consists of **two** sections A and B. Answer all questions in section A. In section B, answer question 6 and any other two.

1.a) Name **two** conditions that are necessary for the formation of petroleum. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 b) List **three** ways in which opencast mining affects the environment. (3 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

2. (a) What is soil conservation 2 marks

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 (b) State **three** farming methods that assist in soil conservation. (3 marks.)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

3.(a) Define the term transhumance. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(b). State **three** areas in Temperate world where transhumance is practiced. (3 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

4.(a) State **five** characteristics of softwood forest in Canada. (5 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

5. The table below represents information on population change in Kenya by province between years 2000 and 2005.

|  |  |
| --- | --- |
| **Province** | **Population in Millions** |
| **Years** |
| **2000** | **2005** |
| Nairobi | 2.229 | 2.751 |
| Central | 3.882 | 4.038 |
| Coast | 2.662 | 2.927 |
| Eastern | 4.840 | 5.120 |
| North- Eastern | 1.054 | 1.438 |
| Nyanza | 4.598 | 4.916 |
| Rift valley | 7.386 | 8.366 |
| Western | 5.532 | 3.885 |
| **Total** | **30.183** | **33.441** |

(a) Which province had the highest change in population between 2000 and

2005? (2marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(b) Calculate the percentage increase in population in Kenya between 2000

and 2005. (3marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Q.6Anwer question six and any other two.

![This village in Siaya county flooded after the Nzoia River burst its banks. [Thomas Mukoya/Reuters]]()

(a)(i). Identify the type of photograph shown above. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 (ii). State **three** physical factors that may have caused the phenomenon shown in the photograph. (3 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 (iii). Identify the natural phenomenon taking place in the photograph. (1 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 (iv). Name **three** areas in Kenya prone to the disaster shown in the photograph. (3 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

b). (i) Draw a rectangle 15 cm by 12cm to represent the photograph above. (2 mark)

 (ii). In the sketch, mark and name human being,

(iii) settlements.

(iv) Flooded areas

(v) Ripples.

( vi). clouds

 5) marks

c). State **three** methods that can be used to minimize the occurrence of the phenomenon represented by the photograph. (3 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

d.(i) Differentiate between land reclamation and land rehabilitation. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(ii). State **two** ways in which each of the following problems experienced in Mwea irrigation scheme can be solved.

* Low prices of rice. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

* Fluctuating water levels in the irrigation canals. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

7. (a) What is mining. (2 marks).

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 b). Explain how the following factors influence occurrence of minerals.

(i) Evaporation. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(ii). Vulcanicity. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(iii). Metamorphism. (2 marks)

-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(b) (i) Apart from deep shaft mining, name **three** other mining methods. (3marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 (ii) Describe how shaft mining is carried out. (6marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 (c) Explain four ways in which mining contributes to the economy of Kenya. (8marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

8. (a)(i). What is mixed farming. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 (ii). Draw a sketch map of Kenya, and on it mark and name **three** areas where coffee is grown. (4 marks).

(b)(i) State **three** physical conditions that favour coffee growing in the areas you have shaded.

 (3 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(ii). Name **two** new varieties of coffee grown in Kenya. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(c). Explain **four** ways in which the government of Kenya assist the small-scale

coffee farmers. (8 marks).

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

d). Your geography class carried out field study in a coffee farm near the school.

i) State **four** methods the class may have used to collect data. 4 marks

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

ii) During the field study the class collected data on quantities of coffee produced in the farm in the last five years. State **two** methods the class may have used to present the data**.** (2 marks).

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

9. (a). Study the map of the world provided to answer the questions that follow. The world maps

indicate the major fishing ground.



 (i). Name the ocean current marked X and Y. (2marks)

X---------------------------------------------------------------------------------------------------------Y---------------------------------------------------------------------------------------------------------

 (ii). Name the continents marked L and N. (2 marks).

 L-------------------------------------------------------------------------------------------

 N-------------------------------------------------------------------------------------------

 (iii). Name the Countries marked P and Q. (2 marks).

 P-------------------------------------------------------------------------------------------

 Q-------------------------------------------------------------------------------------------

b). Apart from the ocean currents explain **four** other factors that influence fishing where two current meets. (8 marks). ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

c) Explain why in East Africa, fresh water fishing water in the area shaded on the map other than ocean currents. (6marks)

 -----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

d). (i). State **two** measures taken by Kenya government to conserve fisheries in Kenya. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 ii) List **three** methods used to preserve fish. (3marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

10. (a)(i). What is energy crisis? (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 (ii)Apart from water, give **two** renewable sources of industrial energy. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

The diagram below shows the occurrence of petroleum in the earths’ crust Use it to answer question (a iii).



A

B

C

Non-porous rock

Porous Rock

(iii). Name the substances labelled A, B, C. (3 marks)

A-----------------------------------

B-----------------------------------

C------------------------------------

 (b) Explain **four** benefits emanating. from rural electrification in Kenya. (8 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(c) (ii) Explain **three** effects that the increase in oil prices had on the economies of oil – importing countries of Africa. (6 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(ii). State **four** ways in which Kenya can reduce the use of petroleum as a source of energy.

 (4 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 ©*This is the last printed page. Sep/2021*