**NAME……………………………………………………………..SCHOOL……………………………..**

**ADM NO……………………..INDEX NO………….…………...DATE…………………...…………….**

**SIGN……………………..….CLASS…………………………….STREAM……….……………………**

**312/1.**

**GEOGRAPHY.**

**PAPER 1.**

SEPTEMBER 2021.

Time: 2 ¾ Hours.

 **TERM ONE 2021 CaSPA AMUKURA PARISH EXAM**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**INSTRUCTION TO CANDIDATES:**

* **This paper has Two Sections A and B.**
* **Answer all questions in sections A.**
* **In section B answer questions 6 and any other two questions.**
* **All answers must be written on the answer sheet provided**

***This paper consists of 4 printed pages***

***Candidates should check the question paper to ensure***

***that all the pages are printed as indicated and no questions are missing .***

**SECTION A**

**Answer all questions in this section.**

1. a) Explain the origin of the earth and the solar system according to the Nebula cloud theory.

 (4mks)

b) Name **two** other theories that explain the origin of the earth and the solar system apart from the Nebula cloud theory. (2mks)

2. a) List **two** zones of transition in the atmosphere. (2mks)

 b) Give **three** evidences that the interior of the earth is hotter. (3mks)

3. a) Define the following terms.

 i) River divide (1mk)

 ii) A confluence (1mk)

 iii) A river profile (1mk)

 b) List **three** factors that influence the formation of a river. (3mks)

4. How is an oasis formed? (4mks)

5. List **four** characteristics of Mediterranean climate. (4mks)

**SECTION B: *Answer questions six and any other two questions.***

6. (a) Study the map of Kijabe 1: 50,000 sheet 134/3 provided and answer the following questions

 (i) Give the approximate height of peak of Kijabe hill. (1mk)

 (ii) Measure the length of the Naivasha –Nairobi railway line from landhies (Grid ref 257987) to

 the level crossing near Kijabe station (grid reference 308984). Give your answer in kilometers and

 Meters.) (2mks)

 (iii) Name the relief feature on the map that may have created problems during the construction of

 the railway line. (1mk)

 (b) Describe the drainage of the area covered by the map extract. (5mks)

 (c) Explain how relief has influenced the distribution of settlement in the area covered by the

map extract. (4mks)

 (d) Citing evidence from the map, state four economic activities carried out in the area

 covered by the map extract. ( 4 mks)

 (e) Suppose you were to carry out a field study at Wakangwe forest:

 (i) Design a working schedule that you would use during the day of the study. (5mks)

 (ii) Give reasons why it would be necessary to sample part of the forest for the study. (2mks)

 (iii) State two ways in which your findings would be useful to the local community. (2mks)

7. a) i) What is faulting? (1mk)

 ii) With the use of a well labeled diagram explain how a reverse fault occurs. (5mks)

 iii) State **two** other types of faults apart from reverse faults. (2mks)

 b) Describe how a rift valley forms through tensional forces. (4mks)

 c) Explain **three** ways in which features resulting from faulting are of economic importance to man. (6mks)

 d) You intend to carry out a field study of the landforms around your school.

 i) State **two** hypotheses you are likely to formulate for the study. (2mks)

 ii) Apart from dividing your class into groups, in what three other ways will you

prepare for the study. (3mks)

 ii) In what **two** ways is dividing the class into groups important? (2mks)

8. a) i) Differentiate between intrazonal and azonal soils. (2mks)

 ii) Give **three** examples of a zonal soils (3mks)

 b) i) Explain **four** factors that influence soil formation. (8mks)

 ii) Give **two** factors that determine the colour of soil (2mks)

 c) i) What is soil erosion. (2mks)

 ii) Explain **four** ways in which vegetation prevents soil erosion. (8mks)

9 a) i) Name a country in Africa where temperate grassland is found. (1mk)

 ii) State **four** characteristics of temperate grasslands. (4mks)

 b) i) Explain **four** ways trees in the coniferous forests have adapted to the

environmental conditions of the region. (8mks)

 c) You are required to carry a field study on a forest near your school. Describe the methods

you would use to determine each of the following aspects of the trees in the forest.

i) Age of the trees. (3mks)

ii) Height of the trees. (3mks)

iii) Tree species (3mks)

10. The figure below shows underground zones of saturation. Use it to answer question a (i)



 a) i) Identify the zones marked a, b, and c. (3mks)

 ii) Name **four** sources of groundwater. (4mks)

 b) Explain **four** ways in which groundwater is of significance to human activities. (8mks)

 c) i) Give **two** examples of lakes in East Africa that have formed due to crustal

warping. (2mks)

 ii) Describe how the process of crustal warping leads to formation of lakes. (5mks)

 iii) State **three** other processes that lead to formation of lakes apart from crustal

warping. (3mks)

