# K.C.S.E 2024 BLUEPRINT PREDICTION

# GEOGRAPHY PP1 10 QUESTION PAPERS

# KCSE BLUEPRINT PREDICTION

# AGRICULTURE PP1

# 10 QUESTION PAPERS

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# K.C.S.E BLUEPRINT PREDICTION

# QUESTION PAPER NO: 1

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

## SECTION A: 25 MARKS

**1.** Describe the formation of planet earth according to the passing star theory. **(5mks)**

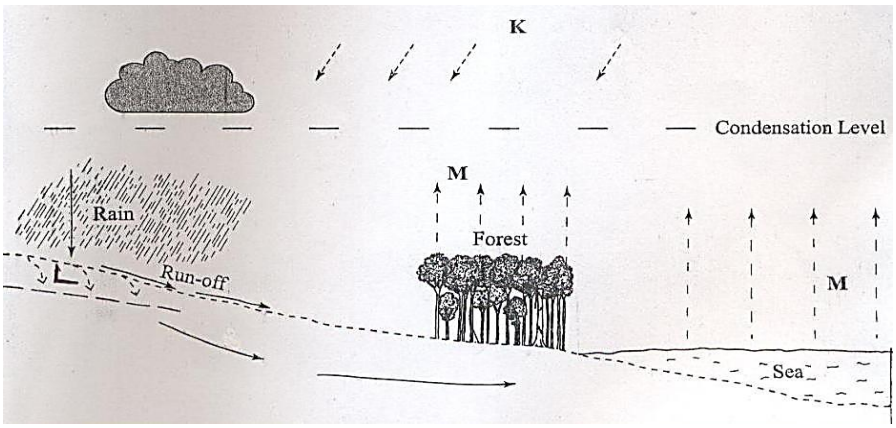
**2. (a)**Give **two** examples of sedimentary rocks. **(2mks)**

**(b)** State **three** characteristics of sedimentary rocks. **(3mks)**

**3.(a)**Differentiate between weathering and mass wasting. **(2mks)**

**(b)**State **three** causes of landslides. **(3mks)**

**4.(a)**The diagram below shows the hydrological cycle. Study and use it to answer the question that follows.




**(a)** Identify the processes marked **K** and **L**. **(2mks)**

**(b)** State **three** characteristics of a flood plain. **(3mks)**

**5.(a)** State **two** reasons why wind erosion is dominant in arid areas. **(2mks)**

**(b)** Describe how a Bajada is formed. **(3mks)**

## SECTION B

**6.**Study the map of Taita hills, ***1:50,000*** sheet provided and answer the question that follow.

**(a) (i)** What is the latitudinal and longitudinal extent of Taita Hills map extract? **(2mks)**

**(ii)** Convert the ratio scale of the map into statement. **(2mks)**

**(b)** Citing evidence from the map, identify **four** social activities in the area covered by Taita Hills.**(4mks)**

**(c)(i)** Draw a rectangle 20cm by 16cm from Easting 32 to 37 Northings 14 to 18. **(2mks)**

**(ii)** On the rectangle mark and name; **(4mks)**

- Taita sisal estate
- Hills
- Main track/motorable
- River

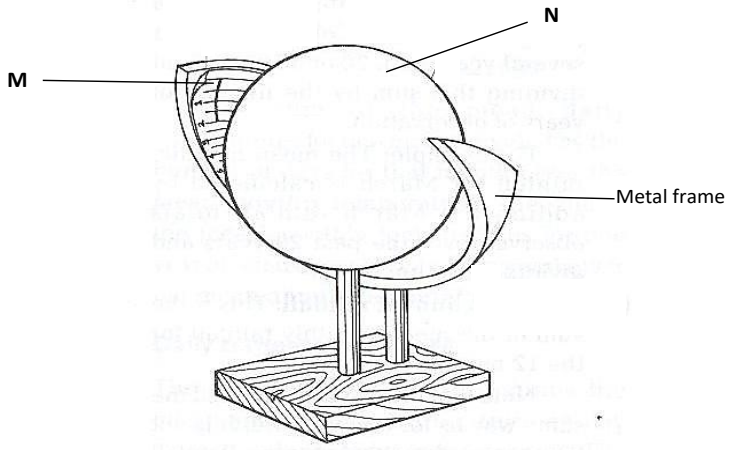
**(iii)**Calculate the new scale of the drawn rectangle. **(2mks)**

**(d)**Citing evidence, explain **three** ways how relief has influenced the distribution of settlement in Taita Hills. **(6mks)**

**(e)**Describe the vegetation in the area covered by the map. **(3mks)**

**7.(a)** Name **two** instruments kept in a Stevenson screen. **(2mks)**

**(b)** The diagram below shows a weather measuring instrument. Use it to answer the questions below.




**(i)** Name the parts marked **M** and **N**. **(2mks)**

**(ii)** Describe how the instrument works. **(4mks)**

**(c)** The table below shows climatic figure for station **Q**. Use it to answer the questions that follow.

| Months | **J** | **F** | **M** | **A** | **M** | **J** | **J** | **A** | **S** | **O** | **N** | **D** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temp in $^0$C | 30 | 31 | 31 | 29 | 27 | 27 | 28 | 29 | 28 | 28 | 27 | 30 |
| Rainfall in mm | 257 | 246 | 231 | 234 | 207 | 201 | 218 | 227 | 234 | 240 | 235 | 230 |

**(i)** Calculate the annual range of temperature for station **Q**. **(2mks)**

**(ii)** Give **four** characteristics of climate for station **Q**. **(4mks)**

**(d)**With the aid of a well-labelled diagram, describe the formation of cyclonic rainfall. **(6mks)**

**(e)**You intend to carry out a field study of a weather station in your school.

**(i)** Give **two** methods of recording data that you are likely to use. **(2mks)**

**(ii)** State **three** reasons why the recording of data at a school weather station may be inaccurate. **(3mks)**

**8.(a)(i)**Distinguish between a fault and a fold. **(2mks)**

**(ii)**Give **three** factors that influence folding. **(3mks)**

**(b)** Describe how isostatic adjustment cause earth movement. **(5mks)**

**(c)** Describe how plate tectonic movements cause fold mountain formation. **(5mks)**

**(d) (i)** Name **two** features resulting from faulting. **(2mks)**

**(ii)**Explain how faulting influences drainage of an area. **(8mks)**

**9.(a)**Distinguish between soil profile and soil catena. **(2mks)**

**(b)**Explain how the following factors influence soil formation:

**(i)**The parent rock **(4mks)**

**(ii)**Relief **(2mks)**

**(c)** Describe laterization process of leaching. **(4mks)**

**(d)** State **three** importance of soil structure. **(3mks)**

**(e)** Give **two** characteristics of Azonal soils. **(2mks)**

**(f)** Explain **four** causes of physical soil degeneration. **(8mks)**

**10.(a)(i)**Define the term Moraine. **(2mks)**

**(ii)**State **three** conditions necessary for the formation of ice. **(3mks)**

**(b)**Describe how ice moves through the following:-

**(i)** Basal slip **(3mks)**

**(ii)** Extrusion flow **(3mks)**

**(c)** Describe how an arete is formed. **(6mks)**

**(d)** Explain the **four** Significance of lowland glaciated features to human activities. **(8mks)**

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# QUESTION PAPER NO: 2

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

**1. (a)** Name **two** forces responsible for the shape of the earth **(2mks)**

**(b)** State **three** reasons why the interior of the earth is hot **(3mks)**

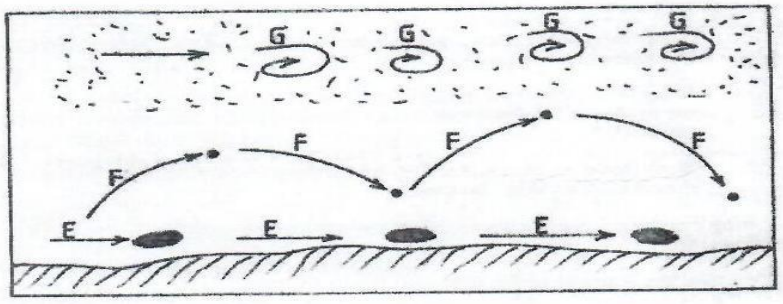
**2.** The table below represents rainfall and temperature figures for a system in Africa.

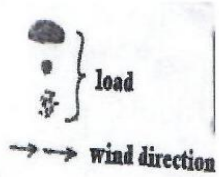
| Month | J | F | M | A | M | J | J | A | S | O | N | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature | 24 | 24 | 23 | 22 | 19 | 17 | 17 | 18 | 19 | 20 | 23 | 23 |
| Rainfall (mm) | 109 | 122 | 130 | 76 | 52 | 34 | 28 | 38 | 70 | 108 | 121 | 120 |

**(a)** Calculate the average monthly temperature for the station **(2mks)**

**(b)** Describe the rainfall pattern for the station **(3mks)**

**3.** The diagram below shows way through which wind transport its load.




**(a)** Name the ways marked E, F and G **(3mks)**

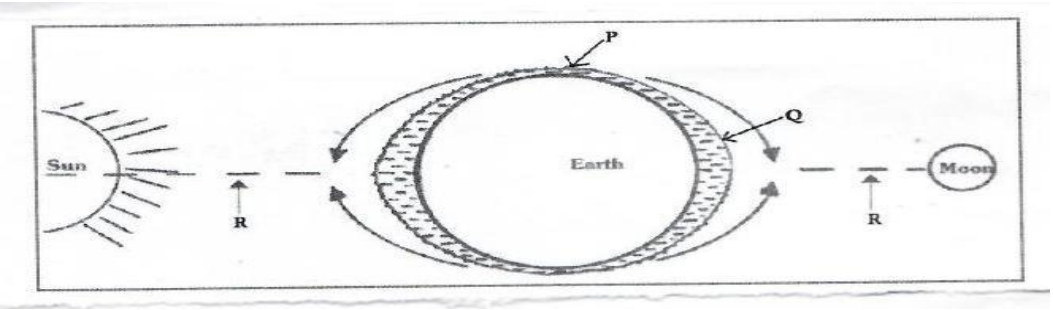
**(b)** Identify **two** features formed by wind deposition in desert. **(2mks)**

**4. (a)** What is natural vegetation **(2mks)**

**(b)** State **three** reasons why Tundra region has scanty vegetation **(3mks)**

**5. (a)** Differentiate between an ocean and a sea **(2mks)**

**(b)** The diagram below represents occurrence of tides. Name the parts marked P, Q and R. **(3mks)**




## SECTION B

***Answer question 6 and any other two questions from this section***

**6.** Study the map of Taita hills and answer the questions that follow.

**(a) (i)** Measure the distance of river Ruhia from its confluence with river Voi Goshi to grid reference 345270 **(2mks)**

**(ii)** Give the location of St Marys' High School by latitude and longitude **(2mks)**

**(b) (i)** Describe the distribution of vegetation in the area covered by the map **(4mks)**

**(ii)** Identify methods which have been used to represent relief in the area covered by the map. **(2mks)**

**(c) (i)** Draw a cross section from grid reference 310140 to grid reference 370140. Use vertical scale of 1 cm represents 20 meters. **(3mks)**

**(ii)** Along the cross-section mark and label the following.

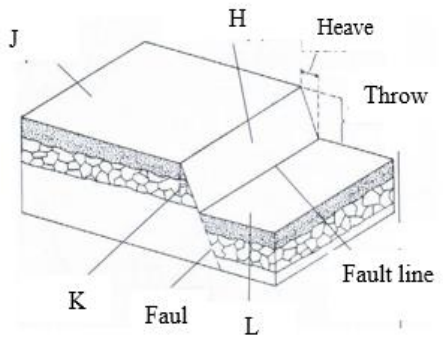
- Hill **(1mk)**
- All weather road (bound surface) **(1mk)**
- Teita sisal Estate **(1mk)**

**(d) (i)** A bore hole is supposed to be dug in the area covered by grid square 2615. State three factors which may make construction expensive **(3mks)**

**(ii)** Citing evidence from the map explain three factors which may favour cattle rearing in the area covered by the map. **(6mks)**

**7. (a)** Differentiate between a normal fault and a reverse fault **(2mks)**

**(b)** Study the diagram below and use it to answer question b(i)




**(i)** Name the parts labelled H, J, K and L **(4mks)**

**(ii)** Give **three** examples of fault blocks **(3mks)**

**(c)** Using well labelled diagrams, describe the formation of the rift valley by tensional forces **(8mks)**

**(d)** Explain **four** economic significance of faulting. **(8mks)**

**8. (a) (i)** Name **two** areas in Africa associated with karst scenery **(2mks)**

**(ii)** State **three** characteristic of karst scenery **(3mks)**

**(b) (i)** State **three** ways through springs are formed **(3mks)**

**(ii)** Explain **three** conditions necessary for the formation of an artesan well. **(6mks)**

**(c)** Describe how the following features are formed: -

**(i)** Grikes and clints **(5mks)**

**(ii)** Stalactite **(6mks)**

**9. (a) (i)** What is an ice sheet? **(2mks)**

**(ii)** Name **two** mountains in East Africa which are ice capped. **(2mks)**

**(iii)** Identify **three** ways in which ice moves. **(3mks)**

**(iv)** Explain **three** factors that influence the movement of ice from the place it has accumulated. **(6mks)**

**(b)** Describe how an arete is formed **(5mks)**

**(c)** You are required to carry out a field study on erosional features in glaciated lowland areas.

**(i)** Give **two** reasons why you would require a working schedule. **(2mks)**

**(ii)** Apart from an arete, name **two** other erosional features you are likely to observe during the field study. **(2mks)**

**(iii)** Give **three** follow up activities you would undertake after the field study. **(3mks)**

**10. (a) (i)** What is soil **(2mks)**

**(ii)** State **three** main components of soil **(3mks)**

**(b)** Explain how the following weathering processes contributes to the formation of soil

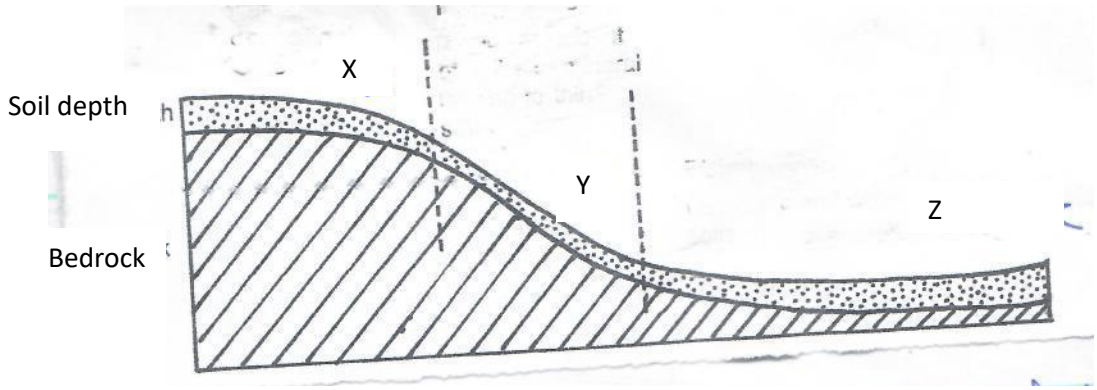
**(i)** Hydration **(3mks)**

**(ii)** Oxidation **(4mks)**

**(c)**(i)Name the type of soil structures which fits the following descriptions

- Soil particles are arranged in thin sheets on top of each other. **(2mk)**
- Soil particles are arranged vertically in cylindrical manner **(2mk)**

**(ii)** The diagram below represents soil catena. Identify the nature of soils in the stages marked X, Y and Z. **(3mks)**




**(d)** Explain how the following factors cause soil degradation

**(i)** Leaching **(2mks)**

**(ii)** Mono cropping **(2mks)**

**(iii)** Burring of land **(2mks)**

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# QUESTION PAPER NO: 3

**312/1**

**GEOGRAPHY**

**Paper 1**

**Time 2 hours 45 min.**

## SECTION A (25MKS)

**1. a)** Define the term solar system **(2mks)**

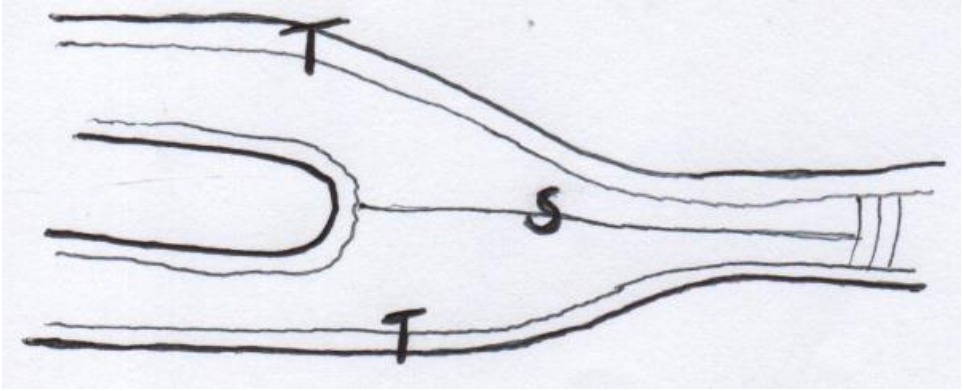
**b)** Give any **three** theories explaining the origin of the solar system **(3mks)**

**2. i)** What is faulting **(2mks)**

**ii)** Mention any **three** types of faults **(3mks)**

**3. i)** Define a glacier **(2mks)**

**ii)** The diagram below shows types of moraines in a valley glacier **(3mks)**

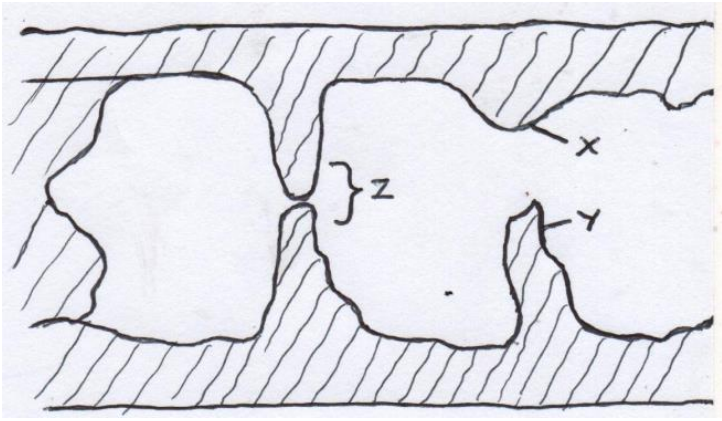



V

Name parts V, T & S

**4.** State **five** conditions necessary for the formation of a beach **(5mks)**

**5. a)** Study the diagram and answer the following questions. **(3mks)**




Name parts X, Y &Z

**b)** State any **two** conditions necessary for development of Karst scenery **(2mks)**

## SECTION B

**6.** Study the map of Taita Hills 1:50,000 (Sheet 198/4) provided and answer the following questions.

**a) i)** Give the **four** figure grid reference of L.R 3880/s **(2mks)**

**ii)** What is the general direction of R. Ruhiaa tributary of R. vol (Goshi) **(2mks)**

**b) i)** Give the adjoining sheet of Taita Hills on the North Coast part of the map. **(2mks)**

**ii)** Measure the length of the Bound surface Road A23 from Mwatake to LC (Level Crossing) **(2mks)**

**iii)** Calculate the area of the forest covering Shellemba and Majengo Zones **(3mks)**

**iv)** Citing evidence from the map, identify three economic activities carried in the area **(6mks)**

**c)** Citing evidence from the map, explain any **four**factors that may have influenced Agricultural activities in the Area **(8mks)**

**7. a)** Define the term Vulcanicity? **(2mks)**

**b)** Distinguish Extrusive and intrusive vulcanicity **(4mks)**

**c)** Give any **three** resultant features due to intrusive vulcanicity **(3mks)**

**d)** Describe the continental drift theory **(3mks)**

**e) i)** State **two** artificial causes of earth movements **(2mks)**

**ii)** Explain any **three** significance of vulcanicity to human activities. **(8mks)**

**8. a)** What is climate? **(2mks)**

**b)** Explain the factors influencing climate under the following sub-headings:

**i.**Latitude **(5mks)**

**ii.**Altitude **(4mks)**

**iii.**Ocean currents **(4mks)**

**c) i)** Distinguish Aridity and desertification. **(2mks)**

**ii)** State any **four** causes of aridity and desertification together with their possible solutions **(8mks)**

**9. a)** Name **two** ways of water movement in Oceans **(2mks)**

**b)** List any **four** types of tides **(4mks)**

**c)** State **four** factors that influence wave transportation **(4mks)**

**d)** Yururugirl's school, form 4 Geography class carried out a field study at a wave deposition site at the coast of Mombasa.

**i.** List any **four** wave depositional features they might have observed. **(4mks)**

**ii.** Explain any **two** factors influencing the type of coast they might have studied. **(4mks)**

**iii.** Give any **three** benefits they might have enjoyed due to conducting reconnaissance to their place of study **(3mks)**

**iv.** List **two** ways the learners might have used in collecting the data **(2mks)**

**v.** Mention any **two** types of coral reef they might have studied during the period of their study **(2mks)**

**10. a)** Name t**hree** major deserts found in:

**i.** Africa **(3mks)**

**ii.** Give **two** processes in which wind erodes the earth's surface **(2mks)**

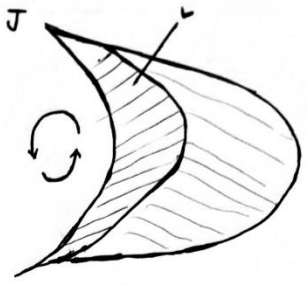
**iii.** Explain **three** ways in which wind transport its load **(6mks)**

**b)** Using well labeled diagrams, explain how the following desert features are formed.

**i.** Yardangs **(5mks)**

**ii.** Mushroom block **(6mks)**

**c)** The diagram below represents features resulting from wind deposition in a desert




**Use it to answer questions that follow**

**i.** Name the above feature **(1mk)**

**ii.** Name the parts marked; **(2mks)**

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# QUESTION PAPER NO: 4

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

**SECTION A**

**1.(a)** List down two isothermal layers of the atmosphere. **(2mks)**

**(b)**State any three characteristics of the lowest layer of the atmosphere. **(3mks)**

**2.(a)**Differentiate between faulting and folding **(2mks)**

**(b)**Apart from Fold Mountains name three other land forms resulting from folding **(3mks)**

**3. (a)**What is Mass wasting? **(2mks)**

**(b)**State three economic benefits of the weathering process**.** **(3mks)**

**4. (a)** What is soil degeneration? **(2mks)**

**(b)**Identify three types of soil degeneration. **(3mks)**

**5. (a)** Name the type of delta found at the mouth of: **(2mks)**

**(i)** River Nile.

**(ii)** River Omo.

**(b)** State one effect for each of the following types of river erosion**.** **(3mks)**

**(i)** Headward erosion.

**(ii)** Lateral erosion.

**(iii)** Vertical erosion

## SECTION B

**6** Study the map of Taita Hills 1:50000 (sheet 189/4) provided and answer the questions that follow.

**a.(i)** Calculate the area (in square kilometers) enclosed by the railway line to the south Eastern part of the area shown**.** **(2mks)**

**(ii)** Give the four figure grid reference of the school at Mrabenyi. **(1mk)**

**(iii)** Identify the adjoining sheet number to the south East of Taita Hills. **(1mk)**

**(iv)** Name the vegetation type in grid square 3314. **(1mk)**

**b. (i)** Citing evidence from the map, give **two** economic activities carried out in the area covered by the map. **(4mks)**

**(ii)**Briefly explain three factors influencing the distribution of settlement in the mapped area **(6mks)**

**c.(i)** Using a vertical scale of 1cm to represent a 20 meters draw a cross-section along northing 15 and between easting 31 and 39 **(5mks)**

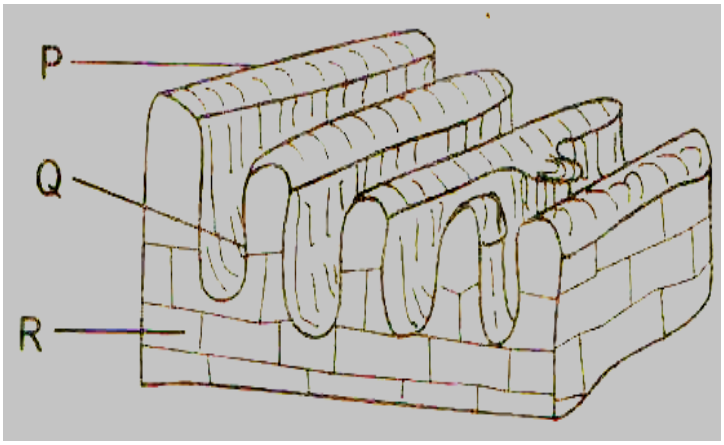
**(ii)** On the cross-section; mark and label. **(3mks)**

- Road C104
- Railway line.
- Hill

**(iii)** Calculate the vertical exaggeration for the cross-section. **(2mks)**

**7.(a) (i)** State four factors which influence the development of karst landforms. **(4mks)**

**(ii)** The diagram below shows some surface features in a karst region. Name the features marked P, Q and R**.** **(3mks)**



**(b)** Using a well labeled diagram describe the occurrence of an artesian basin. **(6mks)**

**(c)** Give three reasons why there are few settlements on a Karst landscape. **(6mks)**

**(d)** Form four students of your school undertook field work on a karst landscape.

**(i)** State two objectives of their study. **(2mks)**

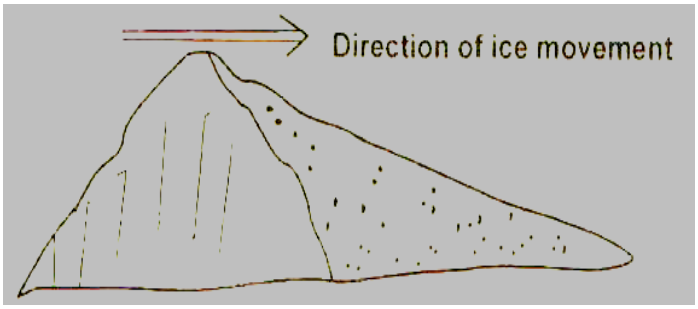
**(ii)** Prepare a simple working schedule for the field study. **(4mks)**

**8.(a)** Define the term glacier **(2mks)**

**(b)** Explain three ways in which glaciation negatively influence the human environment **(6mks)**

**(c)** With the aid of well labeled diagrams describe the formation of a cirque. **(7mks)**

**(d)**The figure below shows a feature formed in a glaciated landscape. Use it to answer the questions that follow.




**(i)** Identify the feature. **(1mk)**

**(ii)** Describe how the above feature is formed. **(4mks)**

**(e)** The form four class planned to conduct a field study on glaciation in Mount Kenya

**(i)** Identify any two types of moraines they are likely to see **(2mks)**

**(ii)**State any three problems they are likely to encounter **(3mks)**

**9.(a)(i)** Explain three factors that influence distribution of vegetation in Kenya. **(6mks)**

**(ii)** State three major vegetation zones in Kenya. **(3mks)**

**(b)(i)** Describe any four characteristics of the tropical rainforests**.** **(4mks)**

. (ii) Give four factors that limit the exploitation of tropical rainforest in Africa. **(4mks)**

**(c)** What is climax vegetation? **(2mk)**

**(d)** Explain three factors that have led to a decline of natural grassland in Kenya. **(6mks)**

**10. (a)(i)** Define the term Aridity. **(2mks)**

**(ii)** With the aid of well labeled diagrams describe how a rock pedestal is formed. **(5mks)**

**(b)** Your class intends to carry out a field study in an arid area near your school.

**(i)** How would you prepare for the field study? **(3mks)**

**(ii)** What are the advantages of studying aridity through field study? **(3mks)**

**(iii)** What advice would you give the residents of the area on curbing the spread of Aridity and desertification? **(4mks)**

**(iv)** Name two main wind depositional features they are likely to have identified. **(2mks)**

**(c)** Explain three physical factors causing aridity and desertification. **(6mks)**

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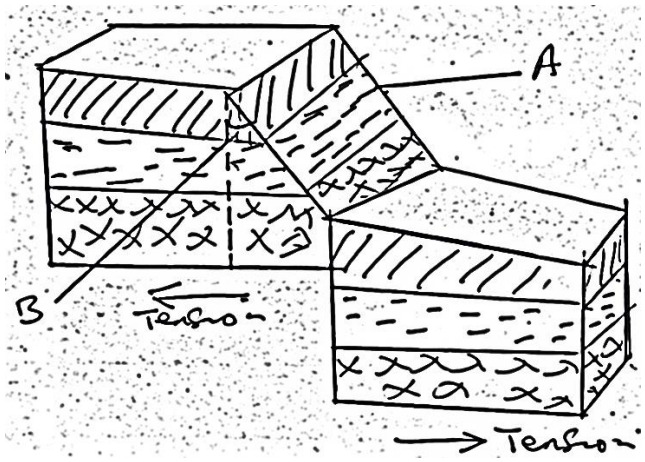
# QUESTION PAPER NO: 5

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

## SECTION A

**1.** The diagram below represents part of the earth's crust which has been subjected to tension forces.




**a)i)** Name the slope marked A. **(1mk)**

**ii)** Name the angle marked B. **(1mk)**

**b)** State three ways in which faulting can influence drainage systems. **(3mks)**

**2. a)** Differentiate between longitudes and latitudes. **(2mks)**

**b)** If the local time in Nairobi on longitude 37°E is 10.00 a.m. What will the time be at Buchanan Liberian on longitude 10°W? **(3mks)**

**3.a)** List four characteristics of desert soils. **(3mks)**

**b)** Give two factors that contribute to soil leaching. **(2mks)**

**4.a)**Give the two dates of equinoxes. **(2mks)**

**b)**State three effects of the rotation of the earth. **(3mks)**

**5.a)**Name the type of delta found at the mouth of:

**i)** River Nile **(1mk)**

**ii)** River Omo **(1mk)**

**b)**State three conditions necessary for the formation of a delta. **(3mks)**

## ***SECTION B***

**6.** Study the map of Oyugis 1:50,000 (sheet 130/1) provided and answer the following questions.

**a) i)** State the magnetic declination when this map was drawn. **(1mk)**

**ii)** Give the longitudinal extent of the area converted by the map. **(1mk)**

**b) i)** Name the feature found at the grid reference (786399). **(2mks)**

**ii)** Identify two types of vegetation found in the area covered by the map. **(2mks)**

**c)** Citing evidence from the map, give four economic activities. **(4mks)**

**d)** Students from Tabaka in Oyugis carried out a field study on settlement activities in the area.

**i)** Identify two settlement patterns they found depicted in the area. **(2mks)**

**ii)** Give two problems they were likely to encounter in their study. **(2mks)**

**e)** Draw a rectangle measuring 8cm by 6cm to represent area East of Eastings 90 and between Northings 36 and 39. On it indicate: **(5mks)**

**i)** District boundary

**ii)** All weather road bound surface

**iii)** Seasonal swamp

**7. a)** Differentiate between vulcanicity and volcanicity. **(2mks)**

**b) i)**Other than lava plateau, list down four features resulting from extrusive volcanic activity. **(4mks)**

**ii)** Describe how lava plateau is formed. **(5mks)**

**c)**Explain four ways in which vulcanicity has influenced human activities in Kenya. **(8mks)**

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

**i)**State three objectives of your study. **(3mks)**

**ii)**State three methods you would use to record the information you would collect. **(3mks)**

**8. a)** Differentiate between weather and climate. **(2mks)**

**b)** Describe the climatic conditions experienced in the Kenya highlands. **(9mks)**

**c)** Explain how the following factors influence climate.

**i)** Latitude **(2mks)**
**ii)** Altitude **(2mks)**
**iii)** Aspect **(2mks)**
**iv)** Winds **(2mks)**

**d)**Explain three ways in which vegetation in the Nyika region of Kenya adapts to the climatic conditions experienced in the area. **(6mks)**

**9. a)**Name three places in East Africa where glaciers are found. **(3mks)**

**b)**Describe how each of the following glacial features are formed.

**i)** Arete **(4mks)**
**ii)** Pyramidal peak **(4mks)**
**iii)** Hanging valleys **(4mks)**

**c)**Explain five benefits of glaciated landscape to man. **(10mks)**

**10. a)**List three processes through which coasts are eroded. **(3mks)**

**b)**State two causes of submergence of coasts. **(2mks)**

**c)**Using well labeled diagrams, explain how each of the following features are formed.

**i)**Spit **(4mks)**
**ii)**Blow hole **(4mks)**

**d)**Some students carried out field study on the coastal features found along the coast of Kenya.

**i)** State three preparations they made for their study. **(3mks)**

**ii)**List three features formed as a result of coastal emergence that they are likely to have studied. **(3mks)**

**e)** Explain three ways in which features resulting from coastal emergence are of significance to Kenya. **(6mks)**

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# K.C.S.E BLUEPRINT PREDICTION

# QUESTION PAPER NO: 6

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

## SECTION A

**1.(a)** Differentiate between latitudes and longitudes**.** **(2mks)**

**(b)** State **three** reasons why the interior of the earth is very hot**.** **(3mks)**

**2.** Describe the origin of the continents according to the theory of continental drift . **(5mks)**

**3.(a)** Name the **three** main stages of the long profile of a river **(3mks)**

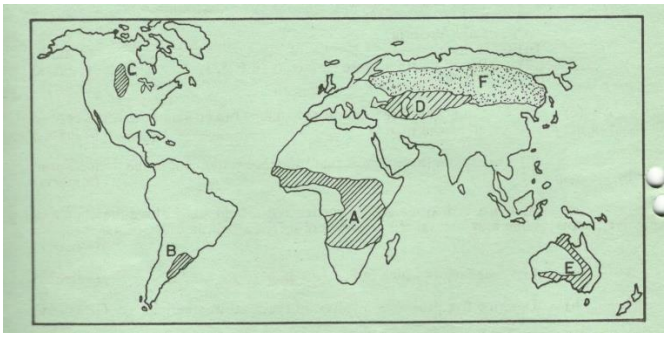
**(b)** State **three** conditions under which gorges may form **(3mks)**

**4.(a)** Give **two** sources of underground water**.** **(2mks)**

**(b)** State **three** conditions that favour the formation of artesian wells. **(3mks)**

**5.(a)** What is the meaning of the term vegetation? **(1mk)**

**(b)** Use the sketch map below to answer the questions that follow




**i)** Identify the type of vegetation in the shaded region marked **F** **(1mk)**

**ii)** State **two** characteristics of theabove identified vegetation type **(2mks)**

## SECTION B

Study the map provided of **Taita Hills 1:50000**(Sheet 189/14) and answer the questions that follow.

**6.(a) (i)** Convert the scale of the map into a statement scale. **(1mk)**

**(ii)** Give the six grid figure reference of the dispensary at Ronge forest. **(2mks)**

**(iii)** Calculate the area of Ronge forest. Give your answer in $KM^2$ **(2mks)**

**(b.) (i)** What is the actual height of the hill at grid square 3926. **(1mk)**

**(ii)** Describe the distribution of settlement in the area covered by the map. **(4mks)**

**c).** Draw a cross section from grid reference **360160** to grid reference **440160**. Use a vertical scale of 1cm to represent 20m. **(4mks)**

On the cross-section,mark and name the following;

**(i)** A railway line**.** **(1mk)**

**(ii)** Thicket vegetation **(1mk)**

**(iii)** A hill **(1mk)**

**d)** Students of Weruga School (grid square 2524) carried out a field study on vegetation west of their school.

**(i)** Give **three** reasons why they would require a time schedule**.** **(3mks)**

**(ii)** Name **two**natural vegetation that they identified. **(2mks)**

**e)** Citing evidence from the map name **three** social services that are carried out in the area coveredby the map. **(3mks)**

**7.(a) (i)** What is ocean salinity? **(2mks)**

**(ii)** Give **three** sources of mineral salts in ocean water. **(3mks)**

**(b)** Explain **three** factors that cause horizontal movement of ocean water. **(6mks)**

**(c)** Describe how the following are formed

**(i)** Wave-cut platform. **(4mks)**

**(ii)** Cuspate foreland**.** **(5mks)**

**(d)** You intend to carry out a field study on wave deposition on the coast of Kenya.

**(i)** Formulate **two** hypotheses for your study. **(2mks)**

**(ii)** Give **three** reasons why you would need to state objectives for your study. **(3mks)**

**8. a)(i)** List **four** characteristics of desert soils. **(4mks)**

**(ii)** Give **two** factors that contribute to soil leaching**.** **(2mks)**

**b)** Explain how each of the following factors influence the formation of soil

**(i)** Parent rock **(2mks)**

**(ii)** Living organisms **(2mks)**

**(iii)** Topography **(2mks)**

**c)** Draw a well labelled profile of a mature soil**.** **(5mks)**

**d)** Differentiate between a soil profile and soil catena. **(2mks)**

**e)** Explain **three** ways in which human activities contribute to soil erosion. **(6mks)**

**9. (a)( i)** What is a glacier? **(2mks)**

**(ii)** How is a glacier formed**?** **(4mks)**

**b)(i)** Explain **three** processes through which ice moves **(6mks)**

**(ii)** Describe the formation of a cirque **(3mks)**

**c)** Describe how the movement of valley glaciers is influenced by the following factors

**(i)** Temperature **(2mks)**

**(ii)** Width of glacier channel **(2mks)**

**d.** You intend to carry out a field study on Mt Kenya

**(i)** Name **three** types of moraines you are likely to identify **(3mks)**

**(ii)** State **three** problems you are likely to encounter **(3mks)**

**10.a) (i)** Define the following features

- Erg **(1mk)**
- Hamada **(1mk)**
- Reg **(1mk)**

**(ii)** State **two** factors that contribute to the development of hot desert. **(2mks)**

**b)** With the aid of well labeled diagrams explain how a rock pedestal is formed. **(8mks)**

**c)** Explain **three** factors that influence wind transportation in a desert. **(6mks)**

**d)** You are required to carry out a field study of an arid area in Kenya.

**(i)** Formulate **two** objectives for the study findings. **(2mks)**

**(ii)** State **two** measures the government would put in place to curb desertification in Kenya. **(2mks)**

**(iii)** Name any **two** features resulting from action of water in desert areas. **(2mks)**

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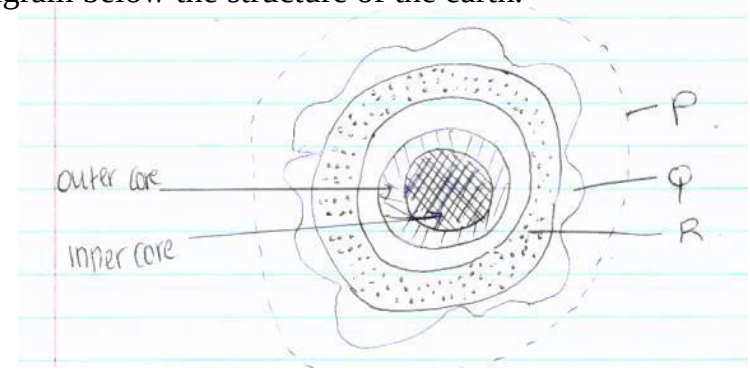
# K.C.S.E BLUEPRINT PREDICTION

# QUESTION PAPER NO: 7

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

## SECTION A

**1.** The diagram below the structure of the earth.




**(a)**Name the parts marked P, Q and R. **(3mks)**

**(b)** Name the minerals that make up SIAL **(2mks)**

**2. (a)** State the plate tectonic theory **(2mks)**

**(b)** List THREE types of boundaries associated with plate tectonic movement. **(3mks)**

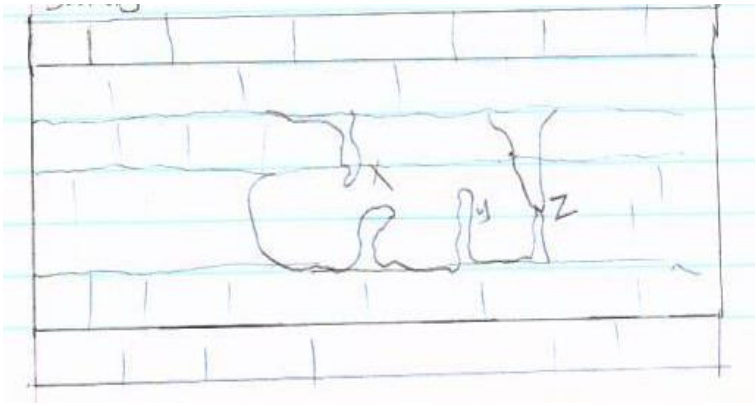
**3(a)** what is a Stevenson screen **(2mks)**

**(b)**State THREE essential features of a Stevenson screen **(3mks)**

**4(a)** Differentiate between weathering and mass wasting **(2mks)**

**(b)**State THREE effects of soil creep on the earth surface **(3mks)**

**5(a)** The diagram below shows some features found in Karst Scenery.




**(a)**Name the features marked X, Y and Z **(3mks)**

**(b)** State TWO ways in which lakes influence the natural environment **(2mks)**

## SECTION B

**6**. Study the map of MIGWANI (1:50,000) sheet 151/1 provided and answer the following questions

**(a(i)** Give the latitudinal extent of the area covered by the map **(2mks)**

**(ii)** What is the magnetic variation of the map? **(1mk)**

**(iii)**Convert the ratio scale of the map into statements scale **(2mks)**

**(b)**Citing evidence from the map give THREE economic activities carried out in the area covered by the map. **(6mks)**

**(c)** Explain how relief has influenced the distribution of settlement in the area covered by the map **(4mks)**

**(d)(i)**Using a vertical scale of 1cm to represent 100metres, draw a cross-section along the line marked J-K **(4mks)**

**(ii)** On it mark and label the following

-Footpath **(1mk)**

-Road **(1mk)**

- Water pipeline **(1mk)**

-steep slope **(1mk)**

**(iii)**Calculate the vertical exaggeration of the cross-section **(2mks)**

**7(a)(i)** what is a river divide **(1mk)**

**(ii)** Describe THREE ways by which a river transport its load **(6mks)**

**(b)** Describe the characteristics of a river on its old stage **(7mks)**

**(c)** Describe each of the following drainage system and patterns

**(i)** Superimposed drainage system **(3mks)**

**(ii)**Centripetal drainage pattern **(2mks)**

**(d)**You have planned to carry out a field study of a river in its youthful stage.

**(i)**State TWO ways in which you would prepare for the study **(2mks)**

**(ii)**Name TWO features you are likely to study **(2mks)**

**(iii)**List TWO problems you are likely to experience during the study **(2mks)**

**8(a)** List FOUR processes through which coasts are eroded **(4mks)**

**(b)** Using well-labeled diagram, explain how each of the following features is formed

**(i)**A spit **(4mks)**

**(ii)**A blow hole **(2mks)**

**(iii)**A toll **(5mks)**

**(c)** Some students carried out a field study on the coastal features found along the coast.

**(i)**List THREE features formed as a result of coastal emergence that they are likely to have studied **(3mks)**

**(ii)**State THREE methods that student may have used to record their data **(3mks)**

**(iii)**Describe TWO ways in which features resulting from coastal emergence are of significance to Kenya **(2mks)**

**9(a) (i)**Distinguish between Orogenic And Epeirogenic earth movement **(2mks)**

**(ii)**Describe how convectional currents cause earth movements **(5mks)**

**(b)**Explain THREE factors that determine the type of features resulting from earth movements **(6mks)**

**(c)** Describe the types of boundaries created as a result of earth movement **(6mks)**

**(d)**A form two class conducted a field study in an area that had undergone earth movement

**(i)**Give TWO examples of transform faults they would have observed **(2mks)**

**(ii)**Name TWO oceanic plate they would have observed **(2mks)**

**(iii)**Give the main reason why the interview method was not the appropriate method collecting the data **(2mks)**

**10 (a)(i)** Apart from fold mountains name THREE other features resulting from folding **(3mks)**

**(ii)** Identify FOUR examples of Fold Mountains outside Africa **(4mks)**

**(b)** Explain TWO major factors that influence folding **(4mks)**

**(c)** Describe the formation of Fold Mountains using the contraction theory **(6mks)**

**(d)** Explain the effects of folding on the following

Agriculture **(2mks)**

tourism **(2mks)**

mining **(2mks)**

Transport **(2mks)**

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# K.C.S.E BLUEPRINT PREDICTION
# QUESTION PAPER NO: 8

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

## Sec. A. 25 MARKS

**1.(a)** What is Weather? **(2mks)**

**(b)**Give three main methods of forecasting weather. **(3mks)**

**2.a)** Differentiate between Latitude and Longitude. **(2mks)**

**b)** The Local time at town x which is on longitude 30ºE is 10.30 A.M. What will be the Local time at town Y which is on Longitude 15ºW **(3mks)**

**3.(a)**What is natural vegetation? **(2mks)**

**(b)**Give three characteristics of Mediterranean vegetation **(3mks)**

**4.(a)** Define the term soil. **(2mks)**

**(b)** Give **three** factors that determine soil leaching. **(3mks)**

**5.** Give **five** conditions that favour the growth of coral. **(5mks)**

## SECTION B

**6.** Study the map of **Taita Hills 1:50,000 (Sheet 189/4**) provided and answer the following questions.

**a)(i)** What is the name given to this type of a map. **(1mk)**

**(ii)** Give the title of this map. **(1mk)**

**b)(i)** Give the longitudinal extent of the area covered by the map. **(2mks)**

**ii)** Calculate the area covered by the Ronge Forest. **(2mks)**

**c)(i)** Give **3** physical features found at grid square **2318**. **(3mks)**

**(ii)** What is the bearing of point **230300** from the air photo principal point at grid square **2226**. **(2mks)**

**(iii)** Describe the distribution of settlements in the area covered by the map. **(5mks)**

**d)(i)** Using a vertical scale of 1cm represent 100 metres draw a cross-section along the line connecting point 280140 and point 370140. **(4mks)**

**(ii)** On the cross-section mark and label the following.

- Hill **(1mk)**
- River **(1mk)**
- All weather road:- bound surface. **(1mk)**

(iii) Calculate the vertical Exaggeration of the cross-section. **(2mks)**

**7.a)(i)** What is Solar system **(2mks)**

**(ii)** Give **three** components of the Solar system. **(3mks**

**b)** State **Five** characteristics of the sun **(5mks)**

**c(i)** What is the name used to describe the shape of the earth. **(1mk)**

**(ii)** Give the **three** forces that contribute to the shape mentioned above. **(3mks)**

**(iii)** State **Four** effects of the rotation of the earth. **(4mks)**

**d)** Describe the structure of the earth crust. **(7mks)**

**8.(a)(i)** What is desertification? **(2mks)**

**(ii)** Name **three** types of desert surfaces **(3mks)**

**(b)** Describe the **three** processes through which wind transports its load. **(6mks)**

**c)** Using a well labeled diagram, describe how a mushroom block is formed. **(6mks)**

**d)** Explain **four** ways through which desert features influence human activities. **(8mks)**

**9. (a)(i)** What is magma? **(2mks)**

**(ii)** Name **Four** types of magma. **(4mks)**

**(b)**Briefly describe how the following features are formed.

**(i)** Geyser **(5mks)**

**(ii)** Lava Plateau. **(5mks)**

**c)**Explain two ways in which Volcanic Mountains positively influence human activities. **(4mks)**

**d)** Students carried a field study on volcanic rocks.

**(i)** Give **two** methods they would have used to collect data. **(2mks)**

**(ii)** State **three** problems that they are likely to have experienced during the field study. **(3mks)**

**10. a)i)** Differentiate between an ice berg and an ice sheet. **(2mks)**

**(ii)** Identify **Four** ways through which ice moves **(4mks)**

**b)** Describe the following processes of glacial erosion**.**

**i)** Plucking **(4mks)**

**ii)** Abrasion **(3mks)**

**c)** Describe how a glacial trough is formed**.** **(5mks)**

**d.** Students of Gatunguru secondary school carried out a field study on glaciation on Mt. Kenya.

**(i)** Give **three** reasons why they conducted a reconnaissance **(3mks)**

**ii)** Give **three** activities they may have been involved in during the study. **(3mks)**

**iii)** Formulate **one** hypothesis that would have been relevant for study. **(1mk)**

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# K.C.S.E BLUEPRINT PREDICTION
# QUESTION PAPER NO: 9

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

## SECTION A

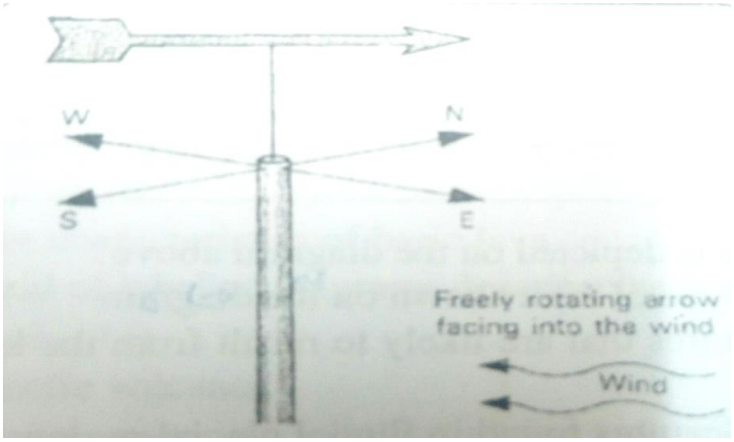
**Answer all questions in this section**

**1.a)** What is geography? **(2mks)**

**(b)** Name the **two** types of environment. **(2mks)**

**2 .**Give **three** proofs that the earth is almost spherical in shape. **(3mks)**

**3**. Use the diagram below to answer questions (a) below.



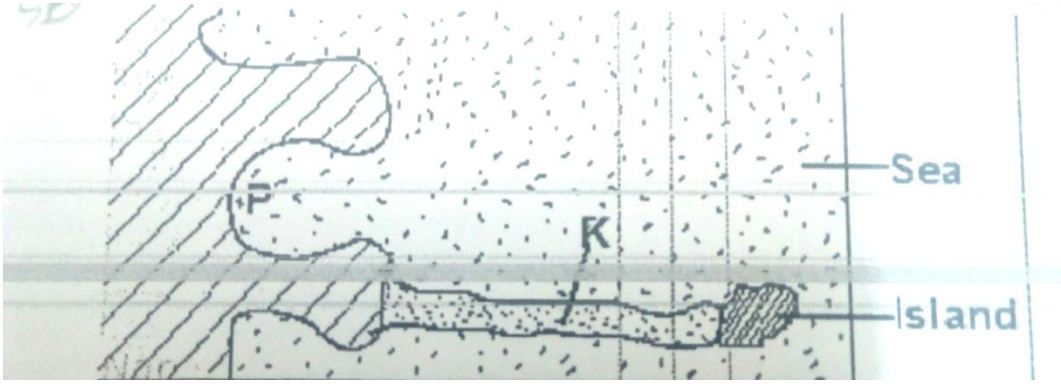

**a.(i)** Name the weather measuring instrument shown in the diagram. **(2mks)**

**(ii)** State the element of weather measured by the instrument named in a. (i) above. **(2mks)**

**(iii)** From the diagram, which direction is the wind blowing. **(2mks)**

**b.** Differentiate between absolute humidity and relative humidity. **(2mks)**

**4.** The diagram below shows a coastal landform.




**(a)** Name the features marked **P** and **K**. **(2mks)**

**(b)** List down **three** types of ocean tides. **(3mks)**

**5(a)** Name the types of earth movements that occur within the earth's crust. **(2mks)**

**(b)** Describe the origin of continents according to the theory of continental drift**.** **(3mks)**

## SECTION B

**6**. Study the map of **Taita Hills (1:50,000 (189/4)** provided and answer the questions that follows

**a (i)** Identify the Province and the District shown on the map. **(2mks)**

**(ii)** Which **two** methods of showing relief have been used in the map? **(3mks)**

**b. (i)** Calculate the area covered by Ronge forest. **(2mks)**

**(ii)** Give **two** natural features found in the grid square 3419. **(2mks)**

**(iii)** Calculate the bearing of the church in grid square **3218** from the school in grid square **3522**. **(2mks)**

**c.(i)** Using a vertical scale of **1cm** to represent **100Metres**, draw a cross section between Grid reference 300190 and grid reference 360190. **(4mks)**

**(ii)** On the cross section, mark and label the following features; **(4mks)**

**i.**A hill

**ii.**A river

**iii.**Thicket

**iv.**Main track (motorable)

**(iii)** Calculate the vertical exaggeration of the cross section. **(2mks)**

**(d)** Citing evidence from the map, explain two factors influencing the distribution of settlement in the area covered by the map. **(4mks)**

**7. a. (i)** Name **three** types of faults. **(3mks)**

**(ii)** Apart from compressional forces, describe **two** other processes that may cause faulting. **(4mks)**

**b.** With the aid of diagrams, describe how compressional forces may have led to the formation of the Great Rift Valley. **(8mks)**

**c.** Explain **five** effects of faulting on human activities. **(10mks)**

**8.a.(i)** Define the term Aridity. **(2mks)**

**(ii)** State **three** factors that makes wind an effective agent of erosion and deposition in the hot deserts. **(3mks)**

**(b)** Describe how a rock pedestal is formed. **(5mks)**

**(c)** Explain **four** significance of desert features to human activities. **(8mks)**

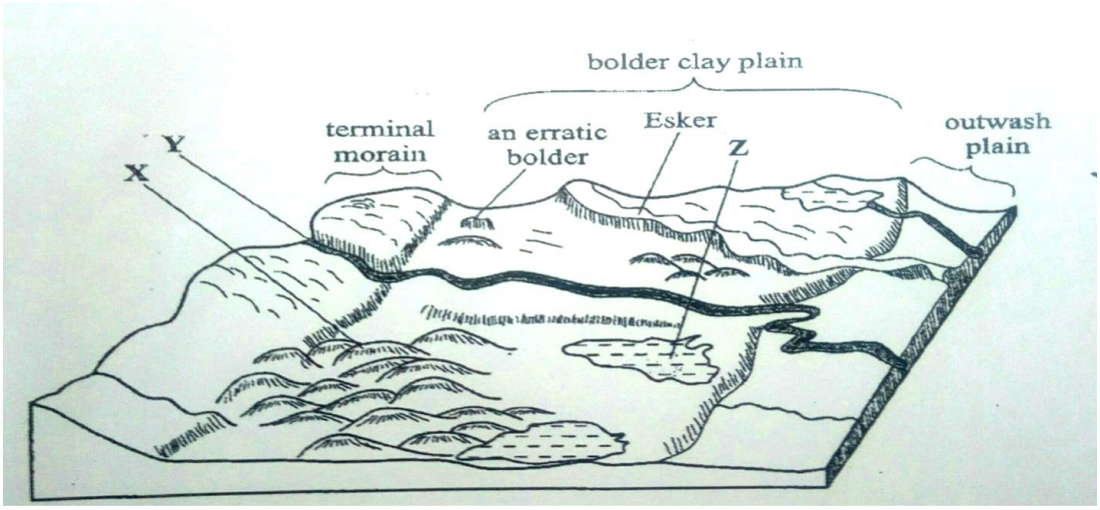
**(d)** A group of form **four** students went out for a field study on action of water in an arid area.

**(i)** Give **three** methods of data collection they may have used. **(3mks)**

**(ii)** State **four** problems they have encountered during the field study. **(4mks)**

**9 (a)** Describe plucking as a process in glacial erosion. **(4mks)**

**(b)** Explain three conditions that lead to glacial deposition. **(6mks)**




**(c)** The diagram below shows features resulting from glacial deposition in a lowland area.

**(i)** Name the features marked **X, Y**, and **Z**. **(3mks)**

**(ii)** Describe how terminal moraine is formed. **(4Mks)**

**(d)** Explain **four** positive effects of glaciation in low land area. **(8mks)**

**10. a)** What is soil catena? **(2mks)**

**ii)** Draw a well labeled diagram showing the structure of a well-developed soil profile. **(5mks)**

**b)** Differentiate between mineralization and humification in soil formation. **(2mks)**

**c)** State **three** factors that determine the color of soil. **(3mks)**

**d) (i)** State **four** factors that influence soil formation. **(4mks)**

**(ii)** Explain how the following farming practices can cause soil degradation:

- Burning. **(2mks)**
- Continuous application of fertilizer on farm land. **(2mks)**
- Monoculture. **(2mks)**

**iii)** State **three** uses of soil. **(3mks)**

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# K.C.S.E BLUEPRINT PREDICTION
# QUESTION PAPER NO: 10

**312/1**
**GEOGRAPHY**
**Paper 1**
**Time 2 hours 45 min.**

## SECTION A.

**1. (a)** What is a natural satellite? **(2mks)**

**(b)**Give **two** dates of the year when equinox occurs. **(2mks)**

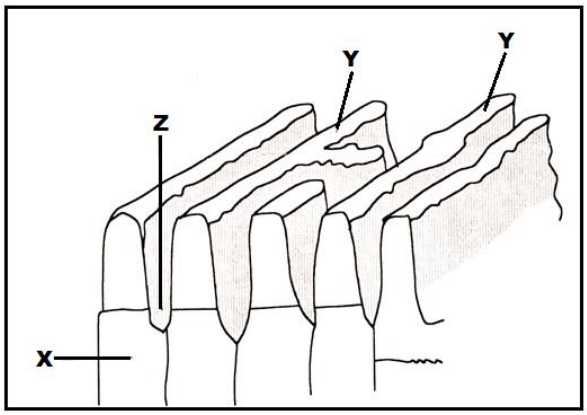
**2.(a)**Differentiate between natural vegetation and secondary vegetation . **(2mks)**

**(b)**State **three** ways in which rainfall influences the distribution of natural vegetation in Kenya. **(3mks)**

**3.(a)**List t**wo** land masses that formed from Laurasia according to the continental drift theory. **(2mks)**

**(b)**State **two** effects of earth movements on the landscape. **(2mks)**

**4.**The diagram below shows some features of a karst scenery. Use it to answer question (a) and (b).




**(a)** Name the features marked X, Y and Z. **(3mks)**

**(b)** How is the feature marked Z formed? **(3mks)**

**5.(a)**State **three** factors that affect the permanence of a lake. **(3mks)**

**(b)**Outline **three** sources of lake water **(3mks)**

## SECTION B.

**6.** Study the topographical map of TAITA HILLS provided and use it to answer the following questions.

**(a) (i)** What is the longitudinal extent of the area covered by the map? **(2mks)**

**(ii)** Determine the bearing of a water tank at grid square 3927 from the water tank east of Kigala hill. **(2mks)**

**(b)(i)** Citing evidence, give four economic activities carried out in the area covered by the map. **(4mks)**

**(ii)** Describe the distribution of natural vegetation in the area covered by the map. **(4mks)**

**(c)** Citing evidence from the map, explain **two** factors that favour the establishment of Teita Sisal estates. **(4mks)**

**(d)** (i) Using a vertical scale of 1cm to represent 50 m draw an accurate crosssection from grid reference 300190 to grid reference 360190. On the cross section, mark and name:

- A hill
- A river valley
- Main track (motorable) **(7mks)**

**(ii)** Calculate the vertical exaggeration of the cross section. **(2mks)**

**7.(a)(i)** Differentiate between weather and climate. **(2mks)**

**(ii)** List **four** factors that influence humidity of a place. **(4mks)**

**(b)** Describe how convectional rainfall is formed. **(6mks)**

**(c)** Explain how the following factors influence climate.

**(i)** Altitude. **(4mks)**

**(ii)** Distance from the sea **(4mks)**

**(d)** State the characteristics of mountain climate. **(5mks)**

**8.(a)(i)** State **four** causes of vulcanicity. **(4mks)**

**(ii)** Give **three** examples of volcanic materials. **(3mks)**

**(b)** Describe how the following features are formed.

**(i)** Basic lava domes. **(5mks)**

**(ii)** Laccolith. **(5mks)**

**(c)** Suppose you were to carry out a field study of a volcanic landscape.

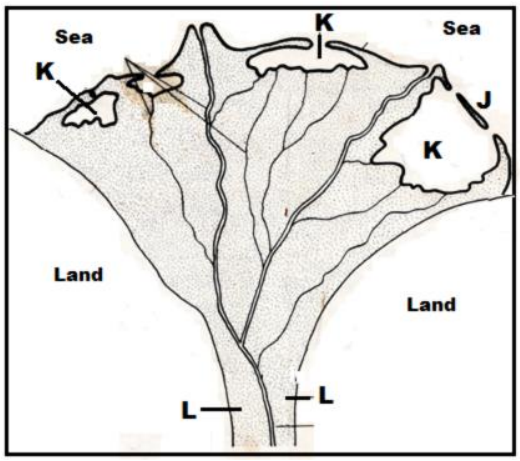
**(i)** State **four** reasons why it is important to prepare a work schedule. **(4mks)**

**(ii)** State **four** advantages of using observation as a method of data collection. **(4mks)**

**9.(a)(i)**What is a river? **(2mks)**

**(ii)**Name **four** features formed due to river erosion. **(4mks)**

**(b)**Use the diagram below to answer question (i) and (ii)




**(i)** What type of delta is represented by the diagram? **(1mk)**

**(ii)** Name the parts marked J, K and L. **(3mks)**

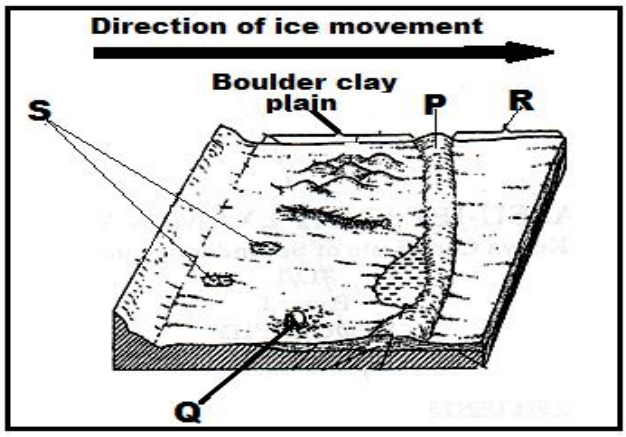
**(c)**With the aid of well labelled diagrams, describe how natural levees are formed. **(7mks)**

**(d)**Explain **four** economic benefits of rivers. **(8mks)**

**10.(a)(i)**List **three** types of glacier. **(3mks)**

**(ii)**Explain **four** factors that influence the rate of glacial erosion. **(8mks)**

**(c)**The diagram below shows some features formed due to glacial deposition in lowlands.




**(i)** Name the parts marked P, Q, R and S. **(4mks)**

**(ii)** Describe how a hanging valley is formed. **(6mks)**

**(d)**Explain **two** negative effects of glaciated landscapes. **(4mks)**

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