

312/1 MS GEOGRAPHY Paper 1 MARKING SCHEME Nov. 2019

THE KENYA NATIONAL EXAMINATIONS COUNCIL

KENYA CERTIFICATE OF SECONDARY EDUCATION

GEOGRAPHY

Paper 1

MARKING SCHEME (CONFIDENTIAL)

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MARKING SCHEME

SECTION A

Answer all questions this section.

| 1. (a) | Distinguish between Geography and | | |
|------------|---|-------------------|----------|
| Steel Visi | Environment FORTAX A RELEASED TO A A REAL | N SHIT | |
| | Geography refers to the study of the distribution of natural and human features/phenomenon and | fearth as home of | Manki |
| | their interrelationship on the earth surface while environment refers to external conditions that | | |
| the l | surround an organism and has influence on its | | |
| | behaviour.) | | |
| 4.5 | | 2 marks | |
| (b) | Identify the two branches of Geography | 20/10/20/20/20/20 | 2 |
| | - Physical Geography | ELEVATION N | |
| | - Human Geography | 2 marks | |
| 2. (a) | Name the parts marked P, Q and R. | 2 marks | 2 (H) |
| | P - Vacuum | | |
| | Q - Glass tube | _ | |
| | R - Mercury | | |
| | | | Zana. |
| | and parting 15 2000 to an a 3x1- | 3 marks | |

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| (b) | State three benefits of weather forecasting to | |
|-----|--|-------------|
| | human activities. | |
| | - It enables farmers to plan their farming | |
| | activities. | ^ |
| | - It helps in guiding tourist activities. | |
| | - It enables military personnel to plan their | |
| | military activities. | 1 |
| | - It enables people to choose suitable clothing. | |
| | - It guides people on sporting activities. | |
| | - It guides people on fishing activities. | |
| | - It helps to determine the times for air/sea | |
| | travels - planning for weather related - Any 8x1- | 3 marks 2 3 |
| 3. | Give four proofs that support the theory of | (|
| ٥. | continental drift. | |
| | - Some continents seem to fit geometrically and | |
| | geologically into a jigsaw along the coastal | - |
| | margins | |
| | - There are similarities between the fossils of | |
| | flora and fauna found on both sides of Atlantic | |
| | Ocean. Pale onto ogral pale ozovlogica | |
| | N N | 1 |
| | - Some geological structure can be traced from | |
| | - Some geological structure can be traced from one continent to another. | |
| | one continent to another. There are similarities in the past climate in the | |
| | | evidence |

| | up of young volcanic rocks at the mid | 7 |
|--------|---|-----|
| | Atlantic. | |
| | - The shores of Red Sea exhibits evidence of having undergone lateral displacement. Sea flow spreading | |
| | magnetic evidence/minerals with same | |
| | are found in different continents | |
| | - Similarity of Clara and Francisco | ent |
| 4.(a) | Give three factors that influence the way a | 14 |
| | river transports its load. | 0 |
| | - The volume of water. | li |
| | - The gradient of the slope. | |
| editor | - The nature of the load. | Ì |
| | - The velocity of the river. | |
| | - The amount of the load. | |
| | bas yllc.hter eg ill of Any 3x1= on emp? | |
| (b) | Name the features marked X, Y and Z. | 3 |
| | X – Bluff | |
| | Y - Levees to dissolt add non-weed solutellands one stort | |
| | Z-Alluvium sastes and so both and bound arms borroom | |
| | 3xt= 3xxxx 3 | |
| 5. (a) | State the two causes of vertical movement of | 1 |
| | the ocean water. 39thous en any filmos and | (|
| | - The differences in the density, and the density and the density of the density | |
| | - The convergence of ocean currents. | 80 |

(b) List three types of ocean tides - Spring tides - Neap tides - Perigian tides - Apogean tides. Any 3x1= 3-marks

(di) I dentity two countries a processful in the

of y and relay to the property of the self-forms

notation among and and anything on

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SECTION B

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

| 6. | Study the map of Yimbo 1:50,000 (Sheet | |
|------------------|--|--------------|
| Street 2 | 115/1) provided and answer the following questions. | A - |
| (a)√ii)√ (ii) | What is the magnetic variation of the map? - 2°28' Identify two natural features found at the grid square 3597. -Scrub | 2 marks 2 |
| | -River - Meanders -papyrus swamp - Scattered Trees -Thicket - Papyrus vegetation - Gentle Slope - River Valley | -2 marks |
| (iii) | Identify two countries represented in the area covered by the map. - Kenya - Uganda | 2. 2.mada |
| | Sive the direction of the trigonometrical station at the grid square 2789 from the Air photo principal point at Nyangoma mission school North West. | 2 marks |

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| (ii) | Measure the length of the provincial boundary to the North West of the area | |
|----------|---|---------|
| Prodeii | covered by the map. Give your answer in | |
| | kilometres. 6.1KM - 6.2km ± 0.1 (6.0KM-6.2KM) | 2-marks |
| (c)(i) | Give evidence that show the area covered | 2 |
| | by the map receives low rainfall. | |
| | - Presence of scattered trees. | |
| | - Presence scrub vegetation. | |
| | - Presence of seasonal rivers swamps. | |
| | Any 3x1= | 3-marks |
| (ii)∗ √/ | Explain how the following factors have | 3 |
| | influenced the distribution of settlements in | |
| | the area covered by the map. | |
| | - Transport | |
| | - Along the roads/motorable | |
| | tracks/footpaths, there is linear settlement | |
| | - At road junctions there are | |
| | clustered/nucleated settlements. | 2 marks |
| | Vegetation was seen than the seen to lead a | 2 marks |
| | - There are no settlements within the woodland st | |
| | thickets/areas where there are papyrus | |
| 1 5 | swamp. Vegetation | |
| , income | - Most of the areas covered by | |

| clustered/nucleated settlement. Any 1x2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | scrub/scattered trees have |
|--|--------|---|
| Relief There are no settlements on the hills isolated islands in the lake. There are clustered/nucleated settlements on the undulating land. My 1x2 22 (d) Describe the drainage of the area covered by the map. The area has many permanent, rivers. There are, seasonal rivers. There are lakes Lake Sare, Lake Victoria. There are papyrus swamps/seasonal swamps. There are man-made reservoirs/dams. Some rivers form dendritic drainage pattern along River Yala. Most of the rivers are draining into Lake Victoria. There is a pend (grid 2 Any 6x1 — 6-marks) There is a pend (grid 2 Any 6x1 — 6-marks) | | |
| Relief There are no settlements on the hills isolated islands in the lake. There are clustered/nucleated settlements on the undulating land. Any IX2 22 Any IX2 22 Any IX2 22 Any IX2 23 Any IX2 22 Any IX2 24 Any IX2 25 Any IX2 25 Any IX2 26 Any IX | | Antiva Sat |
| There are no settlements on the hills isolated islands in the lake? There are clustered/nucleated settlements on the undulating lands/ key 1x2 22 (d) Describe the drainage of the area covered by the map. The area has many permanent, rivers. There are seasonal rivers. There are lakes Lake Sare, Lake Victoria. There are papyrus swamps/seasonal swamps. There are man-made reservoirs/dams. Some rivers form dendritic drainage pattern along River Yala. Most of the rivers are draining into Lake Victoria. The area of seasonal grad 2 Any 6x1= There is a waterfole (grad 2882) | | Any 1x2= 2 marks |
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| 9 The Kenya National Examinations Council 312/1 MS 8 | | Victoria. There are papyrus swamps/seasonal swamps/ There are man-made reservoirs/dams. Some rivers have tributaries/ Some rivers form dendritic drainage pattern along River Yala. Most of the rivers are draining into Lake Victoria. |

| 7. (a) | Using examples from East Africa, describe each of the following types of volcanoes: | erigid to |
|----------|---|-----------|
| (i) | - They erupted in the recent past. | |
| | - They show current volcanic activities. | 11 - |
| | For examples, Ol donyo Lengai in | Dyl aT |
| akinin i | Tanzania., Shetani, Chaimy in Kenya. Description 2-marks | 3-marks |
| | Example - I-mark | 3 |

Victory produce a larger test of

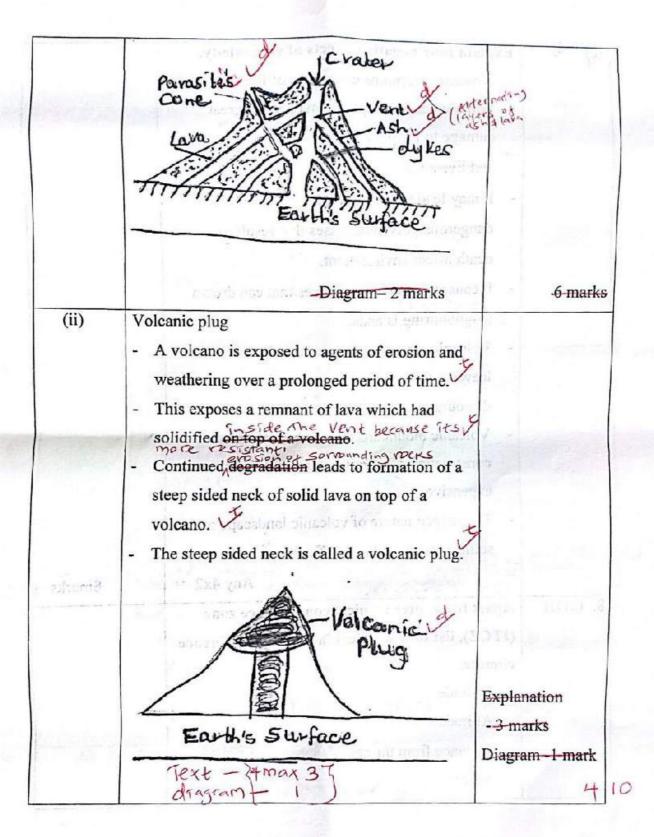
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| (ii) | - This is a volcano that is not active. - It has not shown any signs of activity in the recent past. - It erupted in the last 500 years. |
|------|---|
| | - It is likely to erupt again, example is mount Longonot, Kenya, mount Kilimanjaro Tanzania, Suswa, Menengai Description — 3-marks Example — 1-mark 4-mark |
| (b) | Using a well labelled diagram, explain how the following features are formed. |
| (i) | Composite volcano It is formed as a result of volcanic eruptions. Violent eruption forms a layer of ash. The violence ceases and lava pours out forming a layer of lava on top of the ash. Lava also escapes from the sides of the cone to form conelet/parasitic cone. A volcante cone made up at ash a lava layers It is build up over a long period of time as a result of many eruptions. |



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| (c) 1/ | - Volcanic eruptions cause loss of life / livestock - Some volcanic eruptions may cause great damage to property/infrastructure/buildings/ and livestock. - It may lead to emission of |
|----------------|--|
| skymin. | dangerous/poisonous gases that result to death/affect environment. It causes powerful sea waves/that can drown Coastland neighbouring islands. |
| | - Volcanic mountains create rain shadow on the leeward side causing dryness and this discourages agriculture. |
| | construction of infrastructure, making it expensive. The rugged nature of volcanic landscape make |
| 1 1 2 2 2 | settlement/agriculture difficult. // - La va flows cover agricultural land - Enletton of Volcanic ashand aust - Enletton of Volcanic ashand aust - Enletton of Volcanic ashand aust - 8marks 8 8 |
| 8. (a) (i) | Apart from inter tropical convergence zone (ITCZ), list four physical factors that influence |
| CET THE | - Latitude - Reliet / Altitude, Aspect - Altitude |
| Alter Contract | - Distance from the sea Confinentality - Aspect |

| | - Ocean currents - Winds/air masses - Configuration of the coastline Allignment of the coastline | 2 |
|---------|--|------|
| | Any $4x1 = 4 - marks$ | L |
| (ii) | Give four characteristics of inter-tropical convergence zone (ITCZ) - It is found within $23\frac{1}{2}^{\circ}$ North and $23\frac{1}{2}^{\circ}$ south of the Equator. - It experiences high temperature. - It has low pressure. - It is a zone where South East and North East trade wind converge. - The zone migrates North and South of the | |
| | equator with the apparent movement of the overhead sun. - It is associated with convectional rainfall, high rainfall - It is associated with high humidity Any 4x1= 4 marks | 4 |
| (b) (i) | Name the three equatorial climatic regions of Kenya. - Modified equatorial climate of the Coast. - Modified equatorial climate of North Western margin. border - Modified equatorial of Lake the region. 3 mark | Sign |
| (ii) | - It is found above $66\frac{1}{2}$ ° north and below $66\frac{1}{2}$ ° | |

| south of the equator. Interest of the cold winters with temperatures varying between -29°C to - 40°C. | |
|---|---|
| - It has very long winters lasting 8 months. | |
| 10°C - 15°C. - It has short summers lasting 3 months. - It has a very large annual range of temperature | 1903 (II) (II) (II) (II) (II) (II) (II) (II |
| - There is permanent cover of snow and ice/permafrost. | |
| During the long cold winters, polar winds are dominant. Snow storms/blizzards are common in this region. It is a high pressure zone | -6-marks 69 |
| Explain four human causes of desertification. Deforestation which interferes with the hydrological cycle leading to low rainfall. Poor cultivation practices which has led to soil degeneration and reduction of vegetation. Poor irrigation practices which lead to water logging of the soil/excessive accumulation of salts in the top soil/lowering of the water table | legetation / |
| | between -29°C to - 40°C. It has very long winters lasting 8 months. It has cool summers with temperatures of about 10°C-15°C. It has short summers lasting 3 months. It has a very large annual range of temperature going up to 73°C. There is permanent cover of snow and ice/permafrost. The area is generally dry/with low annual rainfall of 100 - 250mm. During the long cold winters, polar winds are dominant. Snow storms/blizzards are common in this region. It is a kigh pressure zone Any 6x1= Explain four human causes of desertification. Deforestation which interferes with the hydrological cycle leading to low rainfall. ✓ Poor cultivation practices which has led to soil degeneration and reduction of vegetation. ✓ Poor irrigation practices which lead to water logging of the soil/excessive accumulation of |

| torns | Industrialization which has led to depletion of ozone layer thus leading to increased temperature and high rates of evaporation. Overgrazing/overstocking which leads to destruction of vegetation interfering with the hydrological cycle. Any 4x2= | E-NH - III |
|---------------------|---|---|
| 9. x (a) (i) | Define an ocean. An ocean is an extensive body of saline water occupying a large basin between continents.// | 2 marks |
| (ii) V | Explain the three causes of variation in the amount of salt in occan water. - High temperature in ocean water results to | Town to the state of the state |
| (i) | high evaporation which leaves behind higher salt concentration. - Fresh water added to the oceans through rainfall and melt ice reduces concentration of salts in the ocean. - Upwelling of water and ocean currents leads to mixing of ocean water causing variation in | A bati |
| | concentration of salts. | 3 x 2 = 6 marks |

| (p) | Identify three processes involved in wave crosion. |
|-------|--|
| (i) | - Corrasion/abrasion |
| | - Hydraulic action/quarrying action |
| | - Attrition Andreas and the same and the sam |
| | - Solution/corrosion |
| | and this entralse of nointages to tool Any 3x1= 3-marks |
| (ii) | With the aid of well labelled diagrams, describe the |
| | processes through which a wave cut platform is formed. |
| | - During high tides, there is undercutting at the base of the cliff by wave erosion. Forming a notch |
| en £ | - At low tide level, wave erosion is reduced at the base of |
| | tanging pocks above the cave will weather and the fallen rocks resulting from wave erosion at the base when this process is repeated overtime the cliff will refrequence from a fairly fort surface on the shore called awayed part of the cliff to form an off-shore terrace. Interior |
| pre s | Rock waste from clift tecasaion forms an offshore terrace |



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| | - Field sketching/drawing diagrams. | - / | 7 |
|--------|---|-------------|-----|
| | - Note taking / no make was a gradual and bathagab | 1 0 | |
| | - Filling in questionnaires. | 1 1 1 | |
| | - Tape recording. | Janes Land | |
| | Any 3x1= | 3 marks 2 | |
| (ii) | Give three wave depositional features you are likely to | 5 marks 2 | |
| | observe during the field study. | | |
| | - Mud flats/salt marshes | | |
| | - Tombolo Bay baryoffshore bar | | 1 |
| | - Beaches/beach cusps/beach ridges beach berms | | |
| | - Cuspate forelands V | | |
| | - Dune belts/ | | |
| | | 1 | |
| | - Spit. | | |
| 0.(a) | Any $3x1=$ | 3 marks 3 | 6 |
| | List three components of soil | | (2º |
| | - Mineral particles/inorganic matter | | |
| | - Humus /organic matter | - 100 | 1 |
| | - Water | | |
| | - Air | 1 10000 -01 | |
| | Soil-organisms. | 7 | |
| | Any 3x1= | 3 marks 2 | 2 |
| e Anno | Landersgemeint, p. 1997 | 9 | 0 |
| | | | |
| | on mispel to carry out a field a lide out that it before no | 11-12 | |
| | terms will grant in the first and a series of the con- | | |
| | all a location and allow the about the contract of the | L | 1 |

| *(p) | Explain each of the following in relation to the | | |
|--------|--|---------|---------|
| · (i) | classification of soil. | | |
| | Zonal neture i gni en llos uni ed ni | other | |
| | - These are soils that have undergone long | ing a | |
| | time soil formation/have a well developed | tiel | |
| | soil profile/mature soils. | 90 v | 2 mark |
| (ii) | Intrazonal and the control of the co | Shift | |
| | - These are soils that are formed under poor | lavy - | |
| | drainage conditions/waterlogged areas. | gob | 2-marks |
| (iii) | Azonal | | ~ |
| | - These are young soils that have not been | Studes | |
| | affected by soil forming processes/they do | strance | |
| | not have a well developed soil profile/they | | |
| | are immature and skeletal. | mad | 2 marks |
| *(c)// | Explain three causes of soil degeneration. | ight # | 20 |
| rham î | - Poor agricultural practices such as burning | | |
| | of land/over cultivation/monoculture/over | | |
| | cropping cause soil to be deficient in some | | |
| | mineral nutrients leading to loss of soil | | |
| | fertility. Input bluon the old of the second of | Charl | (lb) |
| | - Excessive/wrong application of fertilizer | | |
| | may affect the soil pH making it too acidic | | |
| | interfering with soil micro-organisms. | | |
| | - Leaching due heavy rainfall can lead to | | |
| | percolation of soil nutrients to the lower | of - | |
| | horizons leading to deficiency of the top | | |

| | soil. | | |
|---------|--|------------|--------------|
| | - Excessive drought leads to accumulation as | line yello | ilija (1) |
| | in the top soil making it saling | lamo \$ | |
| | - Soil erosion interferes with soil structure | all - | |
| drong 5 | leading to loss of top fertile soil. | mir. | |
| | - Other human activities such as | line | |
| | quarrying/construction of roads interfere | lateau. | |
| knows 5 | with soil structure leading soil | odl - | |
| | degeneration. | es b | |
| *(d) // | Students from Mwema School visited a | apost. I | 6 marks |
| | nearby ranch to study types of soil. | 90.1 | |
| | A CONTRACTOR OF THE PROPERTY O | | |
| (i) | Explain why they carried the following tools. | mu. | |
| | • Hoes | | |
| | - To enable them dig up the soil samples. | Tropics of | t = at |
| | • Dolymbar 1 | | 2 marks |
| | - To help them carry soil samples. | ora F | |
| | lien to 120 or ember standing of | | -2 marks |
| (ii) | Give three reasons why they would need to | (1) | 4 |
| | seek permission from relevant authorities. | | |
| | - To be permitted to enter the ranch. | 1-11 | |
| | - To enable the ranch administration to | prii | |
| | organize for a guide to take them around. | sed - | |
| | - To be allowed but by D | | |
| | from the coheal | | |

| | - To alert other teachers that their learner will be away that day. Any 3x | - |
|-------|---|------------|
| (iii) | List three types of soil erosion they are likely to observe. | |
| | - Splash erosion - Gulley erosion - Sheet erosion | |
| | - Rill erosion. Any 3x | 1= 3-marks |

