

FORM TWO TERM ONE EXAM 2017

GEOGRAPHY MARKING SCHEME PAPER 1

SCHOOLS NET KENYA

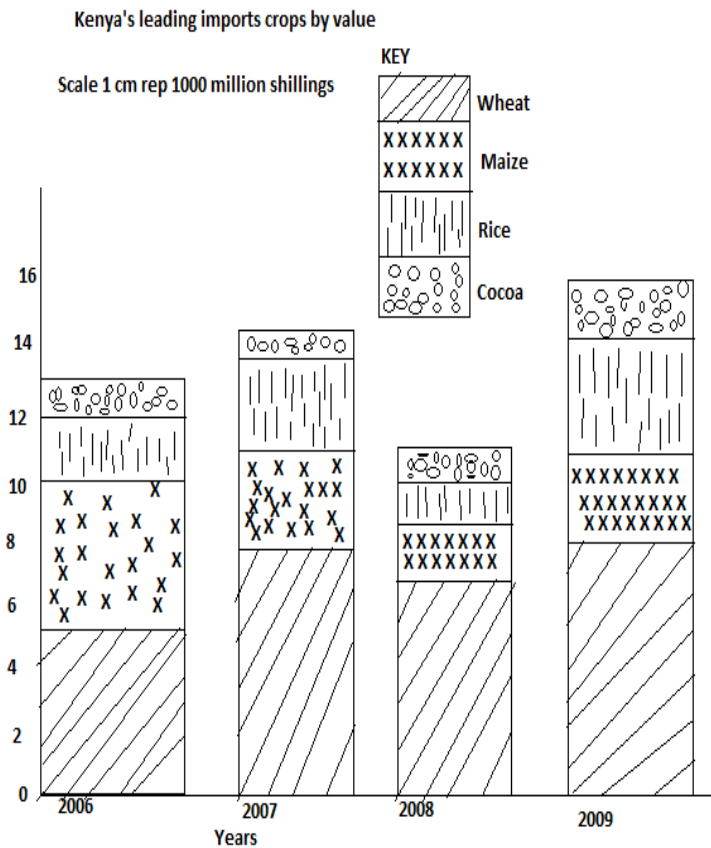
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MARKING SCHEME GOEG P1 Form 3

1. (a) E – Gutenberg discontinuity
F – Inner core
 - (b) -It is the life supporting layer
-Temperatures decrease with increase in height /latitude/ environmental lapse rate/ normal lapse rate occurs
-Pressure falls/decrease with increase in height
-Effect of gravity decrease with increase in height
-The speed of winds increase with increase in height.
 2. (a) -Thermal metamorphism
-Dymanic metamorphism
-Thermo – dynamic metamorphism/region
 3. (a) -They are shock waves that originate from the seismic focus and traveloutwards causing ground to tremble and shake
 - (b) -Disturbances on the crystal rocks cause landslides which crush and burry people and property
 - Can cause tsunamis if it occurs on ocean beds causing a rise in sea level hence death to people property and cause death to people
 - May trigger fires that may burn the environment
 - Can cause permanent displacement of the land hence tearing roads bridges, railways and pipelines a part
 4. (a) -illuviation is the process by whi and redeposited in horizon B while saliniz capillary action from lower horizon to the occurs.
- Kenya shillings ("000" millions)
- ved minerals from horizon A are removed, precipitated, e process by which dissolved salts are move by the soil and precipitate out as crystals as evaporation
- (b). – contains dissolved minerals needed by plant
-is essential for photosynthesis
- supports soil organic life
-excess soil water results into water logging.
- 5(a) -acute delta
-birds foot delta
-estuarine delta.
- (b)- the river must carry a large load to be deposited. The rivers speed should reduce on entering the sea
-the rivers curse should be free of filters that can reduce the amount of sediments reaching the mouth.
-the sediments should be deposited faster than they are removed by sea currents and waves

6(a) 7200-5400x100

$$\frac{5400}{7200-5400} \times 100 = \frac{5400}{180000} \times 100 = 3.3\%$$



(b)(ii).- provides clear visual impression of the total value
-it is easy to interpret

Used for comparison purposes

- (c) - crop failure due to frequent droughts leads to shortages
-Kenya is not self sufficient in production of these crops
-Low production due to increasing costs of farm input
-Occasional illegal exports and smuggling which lead to artificial shortages.
-Pests and diseases reduce amount of grain to be harvested

(c)(i) - cool to warm temperature conditions(11-20⁰c)

- Low rainfall
- sunny and dry conditions for harvesting
- Presence of light clay and heavy loam soils
- gentle slopping landscape

(ii). – There are more extensive tracts of land for wheat farming in Canada while in Kenya farms are relatively small

-Large and many machines are used in Canada while in Kenya a few machines are shared among farmers.

- In Canada farmers specialize in wheat farming while in Kenya farmers practice mixed farming.

-Farmers in Canada are more experienced due to long history of wheat farming while in Kenya the technology of wheat farming is not advancing fast

-More capital in Canada enable farmers sustain large scale production while in Kenya there is inadequate capital.

7(a) Fissure eruption is the process where magma reaches the surface of the earth through cracks while vent eruption is the process by which magma reaches earth's surface through a pipe or hole

(b) (i) ***Batholiths***

- Large mass of thick/viscous magma under high pressure moves in the earth's crust covering an extensive area
- The magma cools and solidifies
- A big dome – shaped mass of igneous rock extending to great depth is formed
- This is a batholith

(ii) ***Volcanic – plug***

- Volcanic eruption through a vent leads to the formation of a volcano
- Magma cools and solidifies in the vent forming a volcanic rock
- Over time, the soft upper part of the volcano is worn away by agents of erosion.
- The volcanic rock in the centre is left standing and is called volcanic plug

(c)- Some volcanic features eg craters form barriers hindering transport and communication

- Volcanic eruption emits poisonous gases eg sulphur which is poisonous
- Volcanic lava damage property eg houses
- Leewards slopes of volcanic mounts are dry hence discourage agriculture
- Recent lava flow form immature soils unsuitable for farming
- Volcanic eruption in ocean bed may cause tsunamis which kill people and destroy property

(d)(i)- The volcanic mountains in the area are not active

- Human settlement in the area is not influenced by the rugged nature of the landscape (accept any correct)

(ii) - Crater/caldera lake

- Hot springs
- Geysers

(iii)- Photographing

- Taking notes
- Sketching diagrams
- Tapping
- Labelling samples

8 (i)-is a fracture/crack on the earth crust formed by compressional forces

(ii)- E – Upthrow

F – Faultscarp/escarpment

G – Downthrow

(b) (i)-Rocks of the earth's crust are subjected to tensional/ compressional forces

- A series of faults form of the crust
- Blocks of land between faults subside at different levels
- The subsided blocks form a series of benches on the landscape
- The benches form faultsteps

(ii)-Compressional forces act on crustal rocks

- Crust is forced to bend upwards
- A large anticline is formed
- Continued compression create tension on the crust of anticline
- Several faults form on the anticline
- The side blocks are forced to upthrust

-Middle block left in leading to formation of rift valley.

- (c)
- Windward sides of block mountains receive relief rainfall leading to wet climate
 - Leeward sides receive little rainfall leading to dry climate
 - The top of block mountains have cool/cold climate because temperatures decrease with increase in height
 - The top of Block Mountains have lower pressure while lower parts have higher atmospheric pressure

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- (a)
- Mt Kenya
 - Mt Kilimanjaro
 - Mt Ruwenzori

- (b)(i)
- Rocks under the earth's surface are subjected to great pressure due to overlying material
 - Denudation occurs on the earth's surface
 - Pressure is slowly released
 - The rock expands fractures and splits in sheet like layers
 - This is pressure release.

- (ii)
- Minerals in rocks absorb water
 - The minerals expands
 - The expansion causes stress in the rocks
 - Eventually the rock disintegrates.

- (iii)
- Oxygen dissolved in water/
existing in air reacts with iron in rocks to form oxides.
 - Brownish/yellowish crust forms on the rocks surface
 - The crust then disintegrates making the rock to breakdown

- (c)
- As plants grow their roots penetrate into rock cracks/ joints causing them to widen and eventually the rocks disintegrates
 - Plants absorb minerals from rocks weakening the rocks hence causing disintegration
 - When plants rot on rocks, they release acids which react with minerals in the rocks leading rock disintegration.

- (d)(i)
- Is a large mass of snow/ice mixed with rocks falling from a steep mountain slope to the valley bottom

- (ii)
- May cause loss of human life
 - May cause damage to property
 - Creates scars on the mountain slopes

-Leads to accumulation of debris at the base of the slope