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- 1. Environment refers to all external conditions surrounding an organism while habitat refers to an area that provides the physical conditions under which plants and animals live (2x1 = 2 marks)
- (b) Reasons for heat in the earth's interior
- It retained the original heat since the interior cooled slowly
- Because of the process of radioactivity

As a result of pressure exerted by the immense volume of overlying crustal rocks (3 marks)

- 2. (a) processes of river erosion
- Attrition
- Solution
- Abrasion/corrosion
- Hydraulic action
- (any 2x1 = (2 marks))
- (b) Types of coasted deltas
- Bird's foot deltas
- Estuarine delta
- Actuate delta
 - (3x1=3 marks)
- 3. (a) faulting is the breaking/fracturing of rocks of the earth's crust
 - (b) Escarpments found in Kenya
 - Mau
 - Nyandarua
 - Nguruman
 - Elgeyo
 - Losiolo

(any 3x1 = 3 marks)

4. (a) The hydrological cycle is the endless circulation of water from the ground to the atmosphere through evapotranspiration and back to the ground through rainfall.

(2x1=2 marks)

- (b) Major hydrological input process rainfall output process
- -Transpiration
- Evaporation

(3x1 = 3 marks)

5(a) characteristics of equatorial rain forests

- Trees form canopy
- Trees are tall, smooth barked with no braches at the lower sections
- Tree trunks are commonly buttressed
- Trees have broad leaves
- The forests are evergreen
- Made of mixed tree species

(any 3x1 = 3 marks)

- (b) Hardwood tree species found in Kenya
- Camphor
- Mvuli

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- Elgon Teak
- Oak
- Mahogany
- Ebony

(any 2 X 1 = 2 marks)

- 6. (a) (i) weathering is the disintegration and decomposition of rocks at or near the earths surface in situ while mass wasting is the downward movement of weathered rocks ,materials along a slope under the influence of gravity (2 marks)
- (ii) Factors influencing the rate of weathering
- Climate
- Nature of rocks
- Gradient/angle of slope
- Time
- Human activities (any 4x1 marks)
- (iii) Process of mechanical weathering
- Exfoliation
- Granular disintegration
- Block disintegration
- Crystal growth
- Frost action
- Pressure release/unloading (any 4x1 marks)
- (b) (i) Biological weathering by animals
- Burrowing animals dig into cracks in rocks breaking the rocks
- Bacteria and earth weathering in rocks
- Animal urine acid in chemical weathering
- Large herds of animals weather rocks with their hooves
- (ii) Biological weathering by man
- Mining, quarrying, construction and cultivation loosens and breaks rocks
- Industrial pollution of air, water and land acids chemical weathering
- Burning vegetation and bush fires weakens rocks exposing them to further weathering
- Clearing vegetation exposes rocks to weathering
- Irrigation in arid areas causes leaching of minerals which chemical weathering (any 2x1 = 2 marks)
- (c) (i) mass movement is the downward movement of weathered rocks materials lubricated by water along a slope.
- (ii) types of rapid mass movement

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- Earthflow
- Mudflow
- Land slides
- Rockslide
- Debris fall
- Debris slide
- Slumping
- Avalanche (any 3x1 = 3 marks)
- (d) Positive effects of weathering to human activities
- Weathering breaks rocks to form deep soils which are important for agriculture
- weathering break down some rocks to form valuable minerals which are exploited and sols for income and serve as industrial raw materials
- Rocks undergo weathering to form beautiful sceneries that attract tourists who bring foreign exchange.
- Weathering weakens rocks which makes mining and quarrying easy.
- some weathering processes such as hydrolysis form important clay minerals which are used as industrial raw materials e.g Kaolin clay.

(any 3x2 = 6 marks)

