

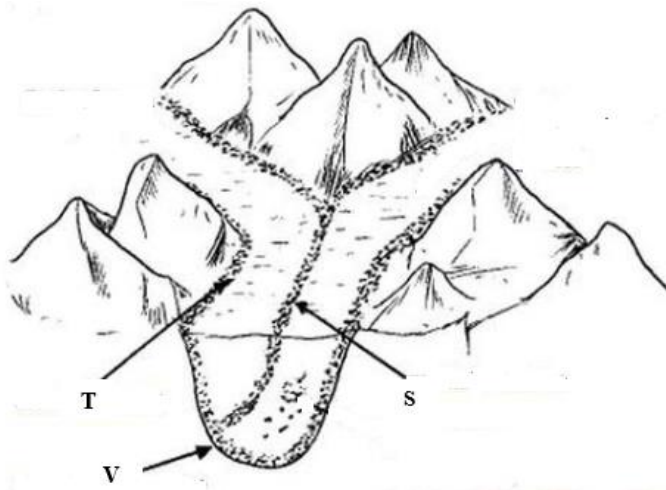
**KCSE TRIAL 2021**

**GEOGRAPHY PAPER 1**

**SECTION A (25 MARKS)**

**Attempt all questions in this section**

1. (a) Name the temperate grasslands found in the following countries.
  - (i) Canada (1 mark)
  - (ii) Russia (1 mark)(b) Explain **three** ways in which desert vegetation adapts to environmental conditions. (3 marks)
2. (a) What is micro-climate? (1 mark)  
(b) Discuss four consequences of climate change. (4 marks)
3. (a) Describe plucking as a process in glacial erosion. (3 marks)  
(b) The diagram below shows types of moraines in a valley glacier.



- (i) Name the type of moraine marked S, T and V. (3 marks)
4. (a) Differentiate between magma and lava. (2 marks)  
(b) Name **two** volcanic features found in the rift valley of Kenya. (2 marks)
5. (a) What is a karst scenery? (1 mark)  
(b) Describe how a stalactite is formed in an underground feature in limestone areas. (4 marks)

**SECTION B: Answer question six and another two**

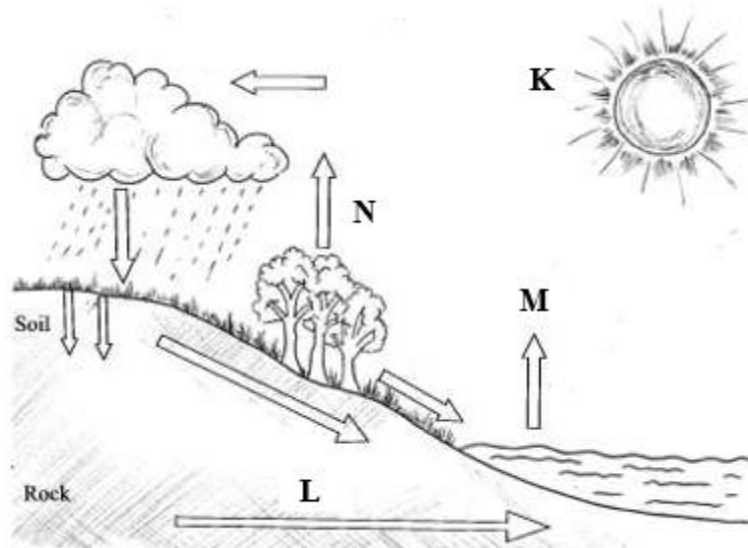
6. Use the map of Taita hills (sheet 189/4) provided and answer the questions below.
  - (a) Measure the length of dry weather road, D535, from the junction at grid 4028 to the east of the maps. (2 marks)

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- (b) What is the bearing of the pump house at grid 2918 from mwaturaje in grid 3215? (2 marks)
- (c) Calculate the area of the region below the all-weather road; bound surface A23 in the South East of map . (2 marks)
- (d) What is the magnetic declination of the map by the time the map was published? (2 marks)
- (e) Discuss the drainage of the area covered by map. (5 marks)
- (f) Citing evidence from the map, state three social services offered in the area covered by the map. (3 marks)
- (g) (i) Reduce the square by 2 within northings 26 and 31 and between eastings 37 and 42. (1 mark)
- (ii) In it, indicate:-
- Ronge forest (1 mark)
  - road D535 (1 mark)
  - water reservoir (1 mark)
  - out crop rock. (1 mark)
- (iii) What is the new scale after reduction? (2 marks)
- (h) Highlight **two** types of vegetation in the area covered by the map. (2 marks)
7. (a) Define the following terms:-
- (i) Aridity (1 mark)
  - (ii) Desert (1 mark)
- (b) (i) Name **three** descriptions of deserts based on the surface. (3 marks)
- (ii) Give an example of a hot desert in Africa. (1 mark)
- (c) Name and describe the **three** types of wind erosions in deserts. (6 marks)
- (d) Explain **three** factors influencing wind deposition in deserts. (6 marks)
- (e) (i) Name **three** features resulting due to action of water in desert areas. (4 marks)
- (ii) What are the **four** positive significance of desert features to human activities? (4 marks)
8. (a) (i) Define the term ‘solar system’. (2 marks)
- (ii) Name **four** components of the solar system. (4 marks)
- (b) (i) Which force is responsible for the flattening of the poles of the earth? (1 mark)
- (ii) Give **four** proofs that the earth is spherical. (4 marks)
- (c) (i) State **four** effects of revolution of the earth. (4 marks)
- (ii) Supposing the local time at Greenwich meridian is noon (1200hrs). What is the local time at a place A, 300E? (3 marks)
- (iii) What is ‘equinox’? (1 mark)
- (d) (i) Draw a well labeled diagram of the internal structure of the earth. (5 marks)
- (ii) What is internal date line? (1 mark)

9. (a) (i) What is faulting? (2 marks)  
(ii) Name **three** features resulting from faulting. (3 marks)
- (b) With the aid of a well labelled diagrams, describe the formation of the rift valley by tensional forces. (7 marks)
- (c) (i) Give **three** ways in which faulting influences drainage. (3 marks)  
(ii) Apart from tensional forces explain **two** other processes that may cause faulting. (2 marks)
- (iii) Name **three** types of faults. (3 marks)
- (d) Discuss how features resulting from faulting is of significance to human activities. (5 marks)
10. (a) (i) Differentiate between a watershed and a catchment area? (2 marks)  
(ii) The diagram below shows a hydrological cycle.



What processes do the arrows labelled K, L, M and N represent? (4 marks)

K  
L  
M  
N

- (b) (i) What is a lake? (2 marks)  
(ii) Give three reasons why some lakes in Kenya are saline. (3 marks)
- (c) (i) Apart from L. Magadi, name **two** other lakes within the rift valley in Kenya that have a high level of salinity. (2 marks)  
(ii) Highlight **four** man-made lakes in Kenya. (4 marks)
- (d) (i) Describe the formation of a corrie lake. (5 marks)  
(ii) Give **three** negative effects of lakes. (3 marks)