**SUNRISE ONE TERM 1 EXAMINATIONS 2023**

**Kenya Certificate of Secondary Education**

**FORM FOUR**

**Form 4 GEOGRAPHY Term 1**

**PAPER 1 APRIL 2023 – 2HRS 45 MINS**

**Name: …………………………………………… Adm No: ………Index No.……**

**Class: ………………Candidate’s Signature: ……. Date: …..……………..**

**Instructions to candidates**

1. ***Write your Name and Index Number in the spaces provided above,***
2. ***This paper consists of two Sections; A and B.***
3. ***Answer aU the questions in Section A.***
4. ***Answer question 6 and any other two questions from Section B.***
5. ***This paper consists of § printed pages. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.***

***(fi Indicate the question you have chosen to do in section B in the table below***

**For Examiner’s us© only**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum score** | **Candidate’s score** |
| **A** | **1-5** | **25** |  |
| **B** | **6** | **25** |  |
|  | **25** |  |
|  | **25** |  |
| **TOTAL SCORE** |  |  |  |

**SECTION A**

**ANSWER ALL QUESTIONS IN THIS SECTION**

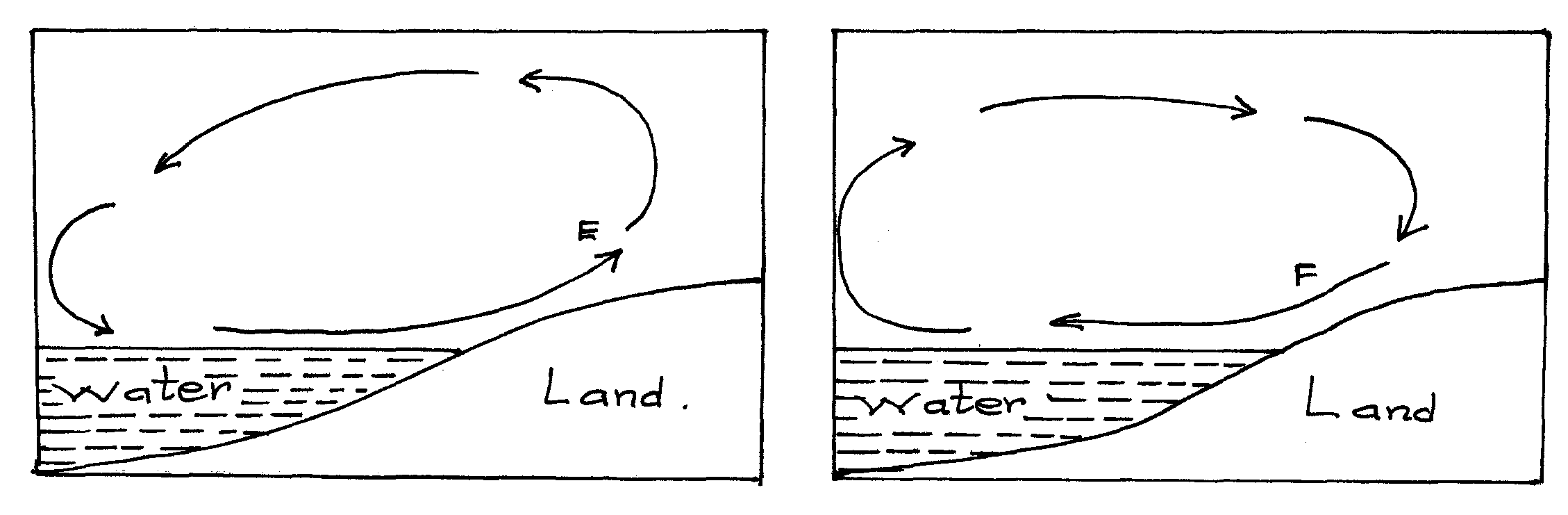
1. a) Define the term Geography (2mks)

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b) What is the relationship between Geography and Biology (2mks)

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1. a) Use the diagram below to answer the following questions



i) Name the air currents marked E. (1mk)

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ii) Why does the air current marked F flow at night. (3mks)

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b) Give reason why air cools as it rises. (2mks)

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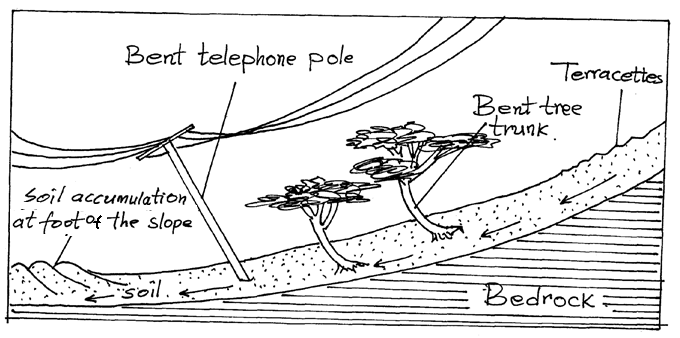
1. (a)Define folding. (2mks)

b) List four types of folds. (4mks)

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1. The diagram below illustrates a mass wasting process. Use it to answer question (a) and (b)



a.) Identify the process. (1mk)

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b.) Explain how the process occurs . (3mks)

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1. a.) What is a river profile? (2mks)

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b.) Name the three stages of a river profile. (3mks)

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**SECTION B**

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

1. Study the map of Nyeri 1: 50 000 (sheet 120/4) provided and answer the following questions.

a (i) Identify the sheet number of the map provided (1mk)

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

(iii) What is the bearing of the trigonometrical station 1906 in grid square 6860 from the trigonometrical station 1865 in grid square 6957. (2mks)

b (i) Identify **three** physical features found in grid square 6259. (2mks)

(ii) Give the latitudinal extent of the area covered by the map. (2mks)

(iii) Identify **two** districts in the area covered by the map. (2mks)

c (i) Using a scale of 1 cm represents 20m, draw a cross section from Easting 68 to Easting 74 along Northing 64 . (4mks)

On it mark and name

* A hill top (1mk)
* A stream/river (1mk)
* All weather road loose surface (1mk)

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

d) Citing evidence from the map, identify **two** social services offered in Mweiga Township. (4mks)

1. a)(i) What is faulting? (2mks)

(ii) Name **four** types of faults (4mks)

b) With the aid of well-labelled diagrams, describe how a Rift Valley is formed by Tensional

force (8mks)

c) Apart from the Rift Valley, name other **three** relief features that may form as a result of faulting. (3mks)

d) Explain **four** ways in which features resulting from faulting are Economic significance. (8mks)

1. (a) Differentiate between weather and climate. (2mks)

(b) Explain **two** ways in which human activities influence rainfall of a given place.(4mks)

(c) The map below shows some climatic regions of the world. Use it to answer the questions that follow.



1. Name the climatic types marked **P**, **Q** and **R**. (3mks)
2. Describe the characteristics of the climatic type labeled **W**. (5mks)

(d) (i) Name **three** greenhouse gases likely to be found in the atmosphere. (3mks)

(ii) Give**three** ways of combating global warming. (3mks)

(e) Members of your class plan to conduct a field study on weather in a local weather station

1. State**three** factors they may identify for the citing of the weather station. (3mks)
2. State **two** advantages of studying weather through a field study. (2mks)
3. (a) (i) Define the term hydrological cycle. (2mks)

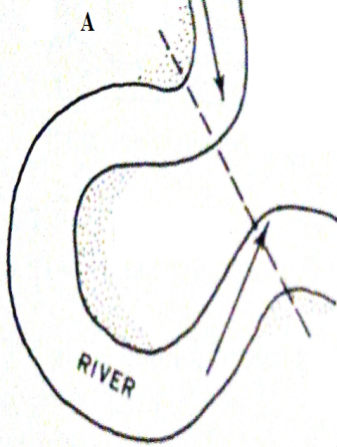
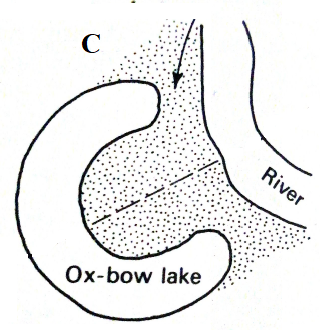
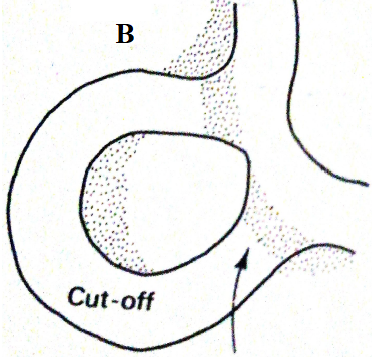
(ii) Explain the following processes of the hydrological cycle;

* Evaporation (2mks)
* Surface run off (2mks)

(b) Citing an example in each case, name **three** sources of rivers in Kenya. (3mks)

(c) State fourfactors that influence river erosion. (4mks)

(d) The diagrams below show formation of a feature of river deposition. Use them to answer the questions that follow.

(i) Describe the processes in the diagrams labeled:

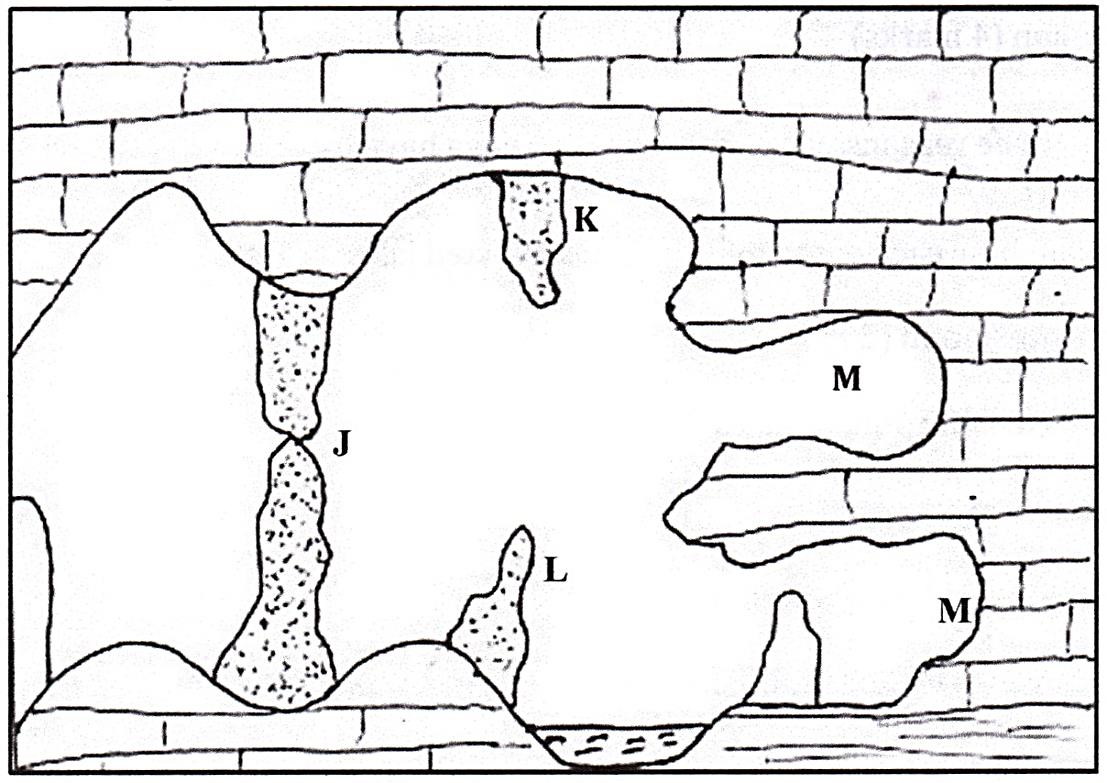
* **A** (1mk)
* **B** (2mks)
* **C** (2mks)

(ii) Name **two** examples of ox-bow lakes in Kenya. (2mks)

(e)Members of your class plan to conduct a field study on the lower course of River Nzoia.

(i) Give **two** equipment they are likely to carry for the study. (2mks)

(ii) State **three** characteristics of the river they are likely to observe during the study (3mks)

1. The diagram below represents underground features in a limestone area. Use it to answer question.
2. (i) Name the features marked **K,L and M**. (3mks)

(ii) Describe how the feature marked J is formed. (6mks)

1. (i) What is a water table (2mks)

(ii) Explain **three** conditions necessary for the development of karst scenery. (6mks)

1. You are supposed to carry a field study of an area eroded by water.

i Give **three** ways you would prepare before conducting the field study. (3mks)

ii Name **two** erosional features you are likely to identify during the field stud (2mks)

iii State **three** significance of the resultant features in limestone areas. (3mks)