



MASENO SCHOOL

Kenya Certificate of Secondary Education 2020

312/1-

GEOGRAPHY

-Paper 1

DEC. 2020 - 2 ¾ hours

THE MASENO SCHOOL MOCK

Name Index Number.....

Candidate's Signature Date

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections A and B.
- (b) Answer **all** the questions in Section A.
- (c) Answer question **6** and any other **two** questions from Section B.
- (d) All answers must be written in the answer booklet provided.

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
SECTION A	25	
6	25	
7	25	
8	25	
9	25	
10	25	

*This paper consists of 6 printed pages.
Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.*

SECTION A

*Answer **all** questions in this section.*

1. a) Differentiate between a rock and a mineral. (2marks)
b.) State **three** reasons why sedimentary rocks are more widespread at the coast. (3marks)

2. a) Name **two** types of faults. (2marks)
b.) State **three** ways in which features resulting from faulting are of economic importance. (3 marks)

3. a) What is micro- climate? (2marks)
b.) Give **three** characteristics of hot desert climate. (3marks)

4. a) Distinguish between an artesian well and an artesian basin. (2marks)
b.) State **three** reasons why there are few settlements in a karst landscape. (3marks)

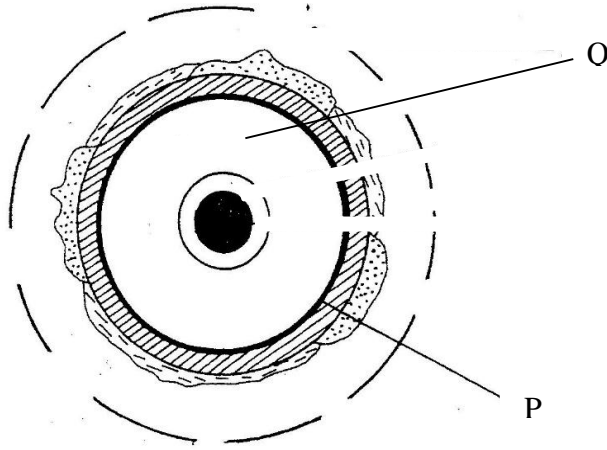
5. a) What is a lake? (2marks)
b.) Give **three** reasons why some Rift Valley Lakes have fresh water. (3marks)

SECTION B

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

6. Use the Yimbo map sheet 115/1 provided to answer the questions that follow.
- a.) i. What is the longitudinal extent of the area covered by the map? (1mark)
- ii.) Convert the map scale to statement scale. (2marks)
- iii.) Measure the distance of the road C 506 from Nango junction to Bondo and Asembo in kilometers. (2marks)
- b.) i. Identify **two** methods used to represent relief of the area covered by the map. (2marks)
- ii.) Describe the drainage of the area covered by the map. (5marks)
- c.) What is the bearing of the air photo principal point at grid square **3286** from the air photo principal point at grid square **3891**? (2marks)
- d.) Draw a rectangle to represent the area between eastings **33** and **39** and northings **88** and **93**. Reduce the rectangle by half. On the new rectangle, mark and name: (5marks)
- The road
 - Thicket
 - Seasonal swamp
- e.) i. Citing evidence, identify **two** economic activities carried out in the area covered by the map. (4marks)
- ii.) Identify **two** human- made features found in grid square 2494. (2marks)
7. a) i. Define the term 'solar system' (2marks)
- ii. Differentiate between earth rotation and earth revolution. (2marks)
- iii. Explain the following effects of the revolution of the earth:
- Varying lengths of day and night. (2marks)
 - The lunar eclipse (2marks)
- b.) i. Give the date and time of the year when the winter solstice is experienced. (1mark)
- ii. Explain how the earth was formed according to the passing star theory. (5marks)

c.) Use the diagram below to answer the questions that follow.



i.) Name the parts labeled P and Q (2marks)

ii.) Give **three** characteristics of part Q. (3marks)

d.) i. Give any **one** planet in the solar system that rotates on its axis in a clockwise direction.

(1mark)

ii. Give the name that is used to describe the slightly flattening shape of the earth at the poles.

(1mark)

iii. Explain two proofs put forward to explain the spherical shape of the earth. (4marks)

8. .a.) i) Distinguish between natural vegetation and derived vegetation. (2marks)

ii.) Explain how the following factors influence vegetation distribution. (4marks)

- Aspect
- Human activities

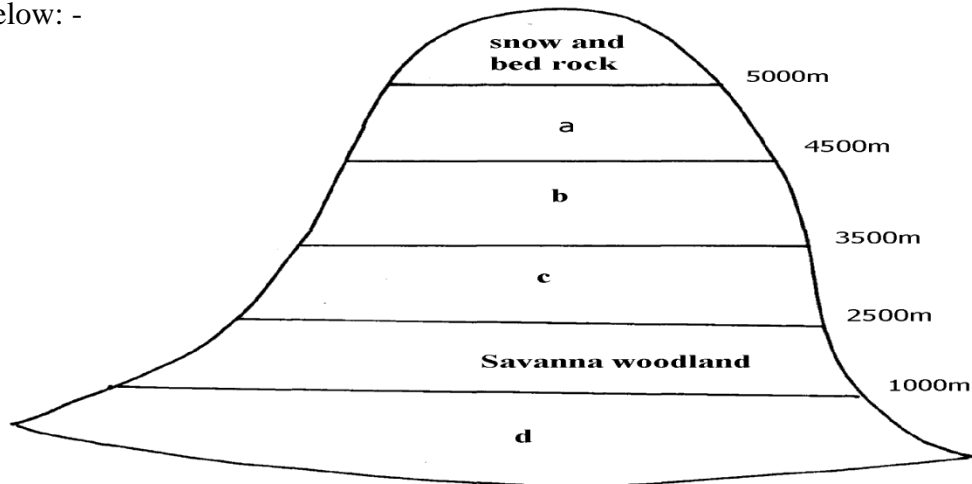
b.) i. Name the specific countries of the world where the following grassland vegetation types are found (3marks)

- Veldtz
- Pampas
- Dawns

ii. Give **three** factors that have led to a decline of the natural grasslands in Kenya. (3marks)

c.) i. Explain **three** factors that limit the exploitation of tropical rain forests in Africa. (6marks)

ii.) The diagram below shows vegetation zones of a S. Africa mountain. Use it to answer the question below: -



Name the zones **A**, and **D** (2marks)

iii.) State **two** reasons as to why mountain tops has no vegetation cover. (2marks)

d.) You are required to carry out a field on a forest near your school.

Apart from identifying types of plants, state **three** other activities you would carry out during the study. (3marks)

9. a.) i. Differentiate between weathering and mass wasting. (2marks)

ii. Explain how the following factors influence weathering:

- Climate (2marks)
- Relief (2marks)
- Plants and animals (2marks)

b.) i. Explain the following chemical weathering processes:

- Hydration (2marks)
- Hydrolysis (2marks)

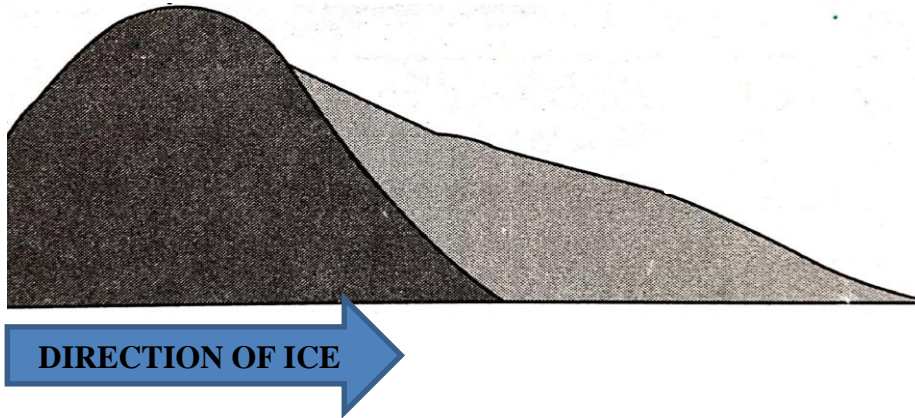
c.) i. Apart from soil creep, name **two** other slow mass wasting processes. (2marks)

ii. List **four** effects of soil creep to the physical environment. (4marks)

d.) i. State the **four** specific factors that influence mudflows. (4marks)

ii.) Give **three** significance of weathering. (3marks)

10. a) i. Define the term glacier. (2marks)
 ii. Identify **two** ways in which glacier moves. (2marks)
 b.) i. Explain **two** processes of glacial erosion. (4marks)
 ii. Describe the formation of a cirque. (5marks)
 c. The diagram below represents a depositional feature in a glaciated landscape. Use it to answer the questions that follow.



- i. Identify the feature above. (1mark)
 ii. Describe how the above feature is formed. (4marks)
 iii. Apart from the above feature, name **two** other depositional features in the lowlands. (2 marks)
 d.) your class intends to conduct a field study on glaciation on Mount Kenya.
 i. Identify any **two** types of moraine you are likely to observe. (2marks)
 ii. State any **three** problems you are likely to encounter during the field study. (3marks)