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## OPENER EXAMS 2023 FORM ONE GEOGRAPHY MARKING SCHEME

- 1. Define the following terms:
  - i. Geography
  - It is the scientific study of the distribution and inters relationship of natural and human phenomena on the earth's surface in relation to man.
  - It is the study of the earth as the home of man.

2x1=2 mks

ii. Environment

All external conditions surrounding an organism and which influence their behavior.

2x1=2 mks

- b. Identify **three** areas studied in human geography.
- Population and demography
- Fishing
- Land reclamation and rehabilitation
- Agriculture
- Transport and communication
- Tourism
- Trade
- Industry

3x1=3

mks

- c. Identify three areas that are studied in practical Geography.
- Map work
- Photography
- Statistical methods

3x1 = 3

mks

d. Explain **four** reasons why geography is studied in Kenyan schools.

(8mks)

- -It helps to develop skills e.g time management.
- It enables learners to understand/ appreciate different environmental influences.
- -It encourages international awareness and co-operation.
- -It helps the learner to appreciate important social values like cooperation.
- -It promotes positive attitude towards protection and conservation or resources.
- -It leads to development of careers like teaching, surveying, and piloting etc.
- -It helps learner to learn the art of time management.
- -It enables learners to explain the origin and formation of the earth and the landforms.

Any

4x2=8mks

- e. Name **four** disciplines that relate with geography.
- History
- Geology
- Mathematics
- Biology

## **GEOGRAPHY MARKING SCHEME**



- Agriculture
- Physics
- Chemistry
- Medicine
- Engineering Any 4x1=mks
  - 2. a. Identify three components of the solar system.
- The sun
- Planets
- Moon
- -Meteors
- -Meteorites

- Asteroids Any 3x1=3mks

- b. Apart from the passing star theory, name two other theories that explain the origin of the solar system.
- Big bang theory
- Supernova theory
- -Creation theory
- Nebula Cloud theory

Any 2x=2mks

- c. Explain the origin of the earth according to the Passing Star Theory.
- A star with greater gravitational pull passed near the sun
- It attracted large quantities of gaseous materials from the sun
- The material split, cooled, and condensed to form planets
- -The planets were set in orbit by passing star
- d. Mention four weaknesses of the passing star theory.

(4x1=4mks)

- -If another star approaches the sun, it would melt down.
- -Chances of another star approaching the sun are minimal
- -High temperature material drawn from the sun would disperse rather than condense.
- -It does not explain the origin of the sun and the passing star came.
  - e. What is an orbit?
- it is a path followed by a body which revolves around another body.

(2x2=2mks)

- 3. a. Identify the shape of the earth.
- Oblate spheroid/Spherical

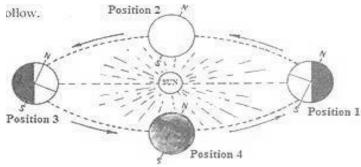
(2x1=2mks)

- b. Which three forces are responsible for the shape of the earth identified above?
- Centrifugal force
- Centripetal force
- Gravitational force
- Coriolis force

(3x1=3mks)

c. Use the diagram below on movement of the earth to answer the questions that follow.

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i. What type of earth movement is shown on the above diagram?

- Revolution (1x1=1)

- ii. If the earth takes 366 days to make one complete revolution during a leap year, how long will it take to move from position 1 to 4?(3mks)
  - $366 \div 3 = 91 \frac{1}{2} \text{ days} / 91.5 \text{ days}.$
  - -366-91.5 = 274.5 days(3x1=3mks)
- iii. Which season is experienced in the northern hemisphere when the earth is in **position 2**?

  Winter

(1x1=1)

- d. If the local time in Nairobi on longitude 37 east is 10.00 p.m. What will the time be at Buchanan Liberia on longitude 10 west?
- -10 = 4 minutes
- $470 \times 4 = 188 \text{ minutes} = 3 \text{ hrs. } 5 \text{ minutes}$
- Buchanan is 3hrs 8 minutes behind Nairobi,
- Time is 6.52 am (3x1=4mks)