

**GEOGRAPHY PAPER
FORM 1
MAY SERIES
2017**

MARKING SCHEME

1. List five activities carried out in the human environment.

(5 marks)

- ☐ Farming
- ☐ Forestry
- ☐ Mining
- ☐ Tourism
- ☐ Settlement
- ☐ Transportation
- ☐ trade
- ☐ industry

2. Name the area of physical geography that deals with:

(5 marks)

(a) study of the origin, structure and composition of the earth.

Geology

(b) the study of internal and external land forming processes and landforms.

Geomorphology

(c) the study of climate and weather .

Climatology

(d) the study of soils.

Pedology

(e) the study of water bodies.

Hydrology

3. Explain the relationship between Geography and the following subjects.

(6 marks)

(a) History

History uses geographical tools like maps, charts and graphs to show where past events took place.

(b) Biology

Geography explains the distribution of organisms and factors influencing their distribution on the earth's surface.

(c) Agriculture

Geography studies farming systems, their distribution and factors affecting farming activities.

4. Name the three planets that do not have satellites.

(3 marks)

- Mercury
- Venus
- Mars

5. State four proofs that show that the earth is spherical.

(4 marks)

- ☐ If one moves towards the east in a straight line he will end up where he started.
- ☐ Satellite photographs taken from space show that the earth is like a sphere.
- ☐ Places in the east see the sun earlier than those in the west.
- ☐ When a ship is approaching the smoke is seen first, then the mast and finally the whole ship.
- ☐ All the planets are spherical so the earth being one of them is also spherical.
- ☐ During the moon eclipse the earth casts a spherical shadow on the moon.
- ☐ The earth's horizon appears curved when observed from a very high point like a tower.

6. Mention three effects of rotation of the earth. (3 marks)

- ☐ Creates day and night
- ☐ Causes deflection of winds and ocean currents.
- ☐ causes rising and falling of ocean tides.
- ☐ Causes time difference between longitudes.

7. At town X 40°E time is 2pm what is the time at B 40°E? (3 marks)

$$40^{\circ} + 20^{\circ} = 60^{\circ}$$

$$60 \times 4 = 240 \text{ min} = 4 \text{ hours}$$

Town B is behind in time = 2.00 - 4 = 10 am.

8. Give two reasons why the interior of earth is very hot.

(2 marks)

- ☐ Due to radio-active decay causing most of the heating.
- ☐ Due to great pressure as a result of overlying crustal materials.
- ☐ The original heat resulting from slow cooling of the materials which were pulled off the sun

9. State four importance of atmosphere. (4 marks)

- ☐ Animals and plants breathe in from it oxygen for respiration.
- ☐ Plants use carbon dioxide from it for photosynthesis.

- ☐ Water vapour in the atmosphere condenses to form clouds which give us rain.
- ☐ Ozone layer in the stratosphere shields us from ultraviolet radiation which may cause cancers.
- ☐ Carbon dioxide and methane in the atmosphere cause global warming through the green house effect.

10. Name the dates which are called:

(a) Equinoxes (2 marks)

21st march and 23rd September

(b) Summer Solstice

(1 mark)

21st June

(c) Winter Solstice

(1 mark)

22nd December

11. State four characteristics of planets.

(4 marks)

- ☐ Spherical in shape
- ☐ Don't have their own light but reflect it from the sun.
- ☐ Revolve around the sun in anticlockwise direction.
- ☐ Have their own force of gravity
- ☐ Only one is known to support life.

12. Give three factors considered when sitting a weather station.

(3 marks)

- ☐ An open place where there is little obstruction of weather elements.
- ☐ Accessible place so that recording can be done easily.
- ☐ A fairly level or gently sloping ground (5°) so that it's easy to position weather instruments.
- ☐ The place should provide a wide view of the surrounding landscape and the sky.
- ☐ The site should be free from flooding.
- ☐ The place should have security.

13. Name the four theories that explain the origin of the solar system.

(4 marks)

- ☐ Nebula cloud theory
- ☐ Passing star theory
- ☐ Collision theory
- ☐ Supernova/explosion theory

14. Below are instruments for measuring elements off weather. Name each and give its function. (10 marks)

Instrument A

Rain gauge-measuring rainfall

Instrument B

Anemometer-measuring wind speed

Instrument C

Wind vane –measuring wind direction

Instrument D

Evaporimeter- measuring rate and amount of evaporation

Instrument E

Thermometer-measuring temperature

15. Explain five importance of studying Geography in Kenyan schools.
(10 marks)

- ☐ Facilitates good relationship among nations by studying geography of other regions of the world.
- ☐ It's a career subject in that it enables one to go for advanced studies in specialised fields.
- ☐ Enables us to appreciate other people's way of life by learning economic activities of different communities within our country and other parts of the world.
- ☐ Enables us to conserve our environment when we learn negative and positive effects of human activities on the environment.
- ☐ Enables us to conserve our resources when we learn wise use of resources in conservation and management of resources.
- ☐ Inculcates in us virtues of cooperation and patience as we work in groups.
- ☐ Makes us to appreciate manual work as we are involved in practical geography which may lead to self employment.
- ☐ Promotion of industry such as tourism by guiding tourists to places of interest by using maps, calculations of distances

16. Define any five elements of weather. (10 marks)

Temperature

☐ Humidity precipitation

☐ Precipitation

☐ Atmospheric pressure

☐ Wind

☐ Sunshine

☐ Cloud cover