

**KENYA HIGH SCHOOL**  
**POST MOCK EXAMINATIONS**  
**GEOGRAPHY PAPER 1 FORM 4, 2021**  
*Kenya Certificate of Secondary Education*

**SECTION A**

Answer ALL questions in this section.

1. (a) Define weather (2marks)  
(b) State five factors considered when siting a weather station. (5marks)
2. (a) State two ways that make it possible for geographers to study the earth's interior. (2marks)  
(b) State 3 changes that may occur in a rock after it has undergone metamorphism. (3marks)
3. (a) Differentiate between folding and faulting. (2marks)  
(b) Citing an example on each period, state 4 orogenesis periods in fold mountain formation. (4marks)
4. (a) Differentiate between a spring and a well. (2marks)  
(b) State three ways by which springs develop. (3marks)
5. Give two ways in which mulching improves soil. (2marks)

**SECTION B**

Answer question 6 and any other two questions from this section

6. Study the map of Homabay (1:50,000) sheet 129/2 provided. Answer the following questions.
  - (a) (i) Calculate the area of the part of Olambwe Valley National Reserve shown on the map. (Give your answer in square kilometers). (2marks)
  - (ii) What is the length of the Homa Bay municipality boundary? (2marks)
  - (iii) Give six figure grid reference for the secondary trigonometric section on the Ruri Hills. (2marks)
  - (iv) Draw a rectangle that measures 10cm by 15cm to represent the area enclosed by Eastings 51 and 59 and Northings 33 and 45. On it mark and name the following features. (5marks)
    - Lake Victoria
    - Ranyambala forests
    - Secondary trigonometric station
    - River Ogongo
  - (b) Using evidence from the map, state three functions of Homabay town (3marks)
  - (c) (i) Name three types of vegetation shown on the map. (3marks)
  - (ii) Identify three settlement patterns found in the area covered by the map. (3marks)
  - (d) Describe the relief of the area covered by the map. (5marks)
7. (a) Define the term vulcanicity (2marks)  
(b) Give four characteristics of a composite volcano. (4marks)  
(c) Describe how a lava plateau is formed. (4marks)  
(d) Explain four negative effects of vulcanicity. (8marks)  
(e) You intend to carry out a field study of an area affected by vulcanicity.
  - (i) Give four sources of information that you would use in the preparation for the study (4marks)
  - (ii) Give three factors that would make it difficult for you to collect accurate data during the field study. (3marks)
- 8 (a) Give three agents of weathering (3marks)

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- (b) Describe frost action as a process of weathering. (4marks)
- (c) Explain how an exfoliation dome is formed. (5marks)
- (d) Explain 3 factors that influence the rate of mass wasting. (6marks)
- (e) State four slow types of mass wasting. (4marks)
- (f) Give three positive effects of mass wasting. (3marks)
- 9.** (a) (i) State three factors that influence transportation of materials in the sea. (3marks)
- (ii) Draw a simple well labeled diagram of a sea wave. (3marks)
- (iii) Give three ways in which islands are formed. (3 marks)
- (b) Explain the following processes of wave erosion.
- (i) Hydraulic action (3marks)
- (ii) Solution (2marks)
- (c) Describe the formation of a spit. (5marks)
- (d) Explain 3 economic importances of coastal landforms. (6marks)
- 10.** (a) State four physical factors that contribute to development of deserts. (4marks)
- (b) Give four characteristics of desert landscape. (4marks)
- (c) Explain three factors that influence wind transport in the desert. (6marks)
- (d) Describe how a deflation hollow is formed. (4marks)
- (e) You carried out a field study in a desert landscape.
- (i) State four preparations for your study. (4marks)
- (ii) List three water depositional features you identified. (3marks)