**312/ 1**

**GEOGRAPHY**

**PAPER 1**

**2 ¾ Hours**

**KENYA HIGH SCHOOL**

**POST MOCK EXAMINATIONS**

**FORM 4**

**2021**

*Kenya Certificate of Secondary Education*

**INSTRUCTION TO CANDIDATES**

This paper consists of **two** sections **A**&**B.**

Answer **ALL** questions in section **A**. In section **B** Answer **QUESTION 6** and **ANY OTHER TWO** questions.

All answers must be written in the answer sheets provided.

*This paper consists of 3 printed pages.*

*Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.*

**SECTION A**

***Answer ALL questions in this section.***

1. (a) Define weather **(2marks)**

(b) State five factors considered when siting a weather station. **(5marks)**

1. (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)**

1. (a) Differentiate between folding and faulting. **(2marks)**

(b) Citing an example on each period, state 4 orogenesisperiods in fold mountain formation. **(4marks)**

1. (a) Differentiate between a spring and a well. **(2marks)**

(b) State three ways by which springs develop. **(3marks)**

1. Give two ways in which mulching improves soil. **(2marks)**

**SECTION B**

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

1. Study the map of Homabay (1:50,000) sheet 129/2 provided. Answer the following questions.
2. (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.

* Lake Victoria
* Ranyambala forests
* Secondary trigonometric station
* River Ogongo **(5marks)**

1. Using evidence from the map, state three functions of Homabay town **(3marks)**
2. (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)**

1. 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.

1. Give four sources of information that you would use in the preparation for the study **(4marks)**
2. Give three factors that would make it difficult for you to collect accurate data during the field study. **(3marks)**
3. (a)Give three agents of weathering **(3marks)**

(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)**

1. State four slow types of mass wasting. **(4marks)**
2. 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.

1. Hydraulic action **(3marks)**
2. 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.

1. State four preparations for your study. **(4marks)**
2. List three water depositional features you identified. **(3marks)**