INSTRUCTIONS TO CANDIDATES
1. This paper has two sections, section A and B.
2. Answer ALL questions in section A.
3. Answer question 6 and any other two in section B
4. Use separate answer sheet/foolscap for section A and for each question in section B.
5. Ascertain that there are 10 questions in this paper before you begin.
6. All the answer must be written in English.

FOR EXAMINER’S USE ONLY

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SECTION A (25mks)

Answer all questions in this section.

1. Explain two relationships between geography and physics (4mks)
2. a) What is the difference between a meteor and meteorite (2mks)
   b) State four effects of the rotation of light on its own axis (4mks)
3. a) What is atmospheric pressure (2mks)
   b) Identify three factors that influence atmospheric pressure on the surface of the earth (3mks)
4. The diagram below shows some features found in a desert landscape. Use it to answer the questions that follow.

   ![Desert Landscape Diagram]

   a) Identify the landscape shown in the diagram (2mks)
   b) Name the features marked L M and N (3mks)
5. a) Name two types of ice masses found on mountains in east Africa (2mks)
   b) State three distinct characteristics of pyramidal peaks (3mks)
SECTION B (75mks)
Any question 6 and ANY OTHER TWO questions in this section

6. Study the Map of Nyeri 1:50000(sheet120/4) provided and answer questions that follow;
   a)  
   i)  What is the Map title  
       (1mk)  
   ii) Give the longitudinal extent of the area covered by the map.  
        (2mks)  
   iii) Give the index to adjoining sheet to the North West of the area covered by the Map  
        (1mk)  
   iv) Identify two provinces that are covered by the area shown by the Map  
        (2mks)
   b)  
   i) Calculate the area of Aberdare forest from Northing 52 Southwards and west of 
       Easting 55.  
       (2mks)  
   ii) Name the human features found in grid square 6660  
       (3mks)
   c)  
   i) Using a vertical scale of 1cm represents 40cm, draw a cross-section along 
       northing 60 and easting 64 to 70  
       (3mks)  
       On it mark and label the following:  
       (4mks)
       • River  
       • National park boundary  
       • Dry weather road  
       • A pipeline  
   ii) Calculate the vertical exaggeration  
       (2mks)
   d)  
   Describe the relief of the area covered by the Map  
       (5mks)
7a)  
   i) What is a rock?  
       (2mks)  
   ii) State any three characteristics of minerals  
       (3mks)

b) Explain three classification of mechanically formed sedimentary rocks and to each give an example.  
   (6mks)

Ci) State two changes that occur in the sedimentary rocks when they are subjected to intense 
    heat and pressure.  
    (3mks)  
   ii) Outline any three differences between plutonic and volcanic rocks  
       (3mks)
d) Name the type of rocks which results from metamorphism of:

i. Granite (1mk)
ii. Clay (1mk)

e) The diagram below shows the occurrence of petroleum in the earth’s use it to answer the following questions.

![Diagram](image)

i) Name the substances in the areas labelled L, M and N (3mks)
ii) Give three by products obtained when crude oil is refined (3mks)

8)

a) i) What are faults? (2mks)
   ii) Identify any three major faulted areas of the world (3mks)

b) i) other than the reverse fault, name two other types of faults (2mks)
   ii) With the aid of a well labelled diagram, describe how a reverse fault is formed. (5mks)

c) i) Use the map of Kenya below to answer the following questions;
Name the escarpments labelled A to D (4mks)

ii) Apart from the rift valley, identify any other 3 features resulting from faulting (3mks)

D) Explain three ways in which faulting can influence drainage (6mks)

9)

a)  
   i) Distinguish between an ocean and a sea (2mks)
   ii) State four sources of ocean salinity (4mks)

b) with well labelled diagrams, explain how the following wave erosional features are formed (10mks)
   i) Cliff
   ii) Geo

c) You are planning to carry out a field study on the depositional features along the coast of Kenya
   i) Give three types of submerged highland coasts you identified (3mks)
   ii) State three objectives you would formulate for the study (3mks)
   iii) Give three methods you would use to record the information collected (3mks)
10) The map below shows the location of some mountain ranges.

a) Name the ranges marked P, Q, R, S  

b) 
   i) Apart from fold mountains, name two other features resulting from folding  
      (2mks)
   ii) Explain how the following theories led to the formation of fold mountains  
       a. Contraction theory  
       b. The convectional current theory  
       (3mks)  
       (3mks)

c) Explain four **negative** effects of fold mountains on human activities  
   (8mks)

d) Students are planning to carry out a field study on landforms  
   i) State three ways in which the students would prepare themselves for the  
      study.  
      (3mks)
   ii) Name two follow up activities they conducted after the study  
      (2mks)