

NAME.....INDEX NO.....  
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DATE.....

312 / 1  
GEOGRAPHY  
PAPER 1  
MARCH / APRIL 2015  
2 ¾ HOURS

## KABONDO DIVISION JOINT EVALUATION TEST

*Kenya Certificate of Secondary Education*

### **INTRODUCTION TO CANDIDATES**

- i) *This paper consist of Section A and B*
- ii) *Answer All questions in section A .In section B answer question 6 and any other two questions from this section*
- iii) *All answers must be written on the answer booklet provided*
- iv) *Candidates should check to the question paper to ensure that all the pages are printed as indicated and that no questions are missing.*

### SECTION A (25 MARKKS)

Answer all the questions in this section

For examiner's use only

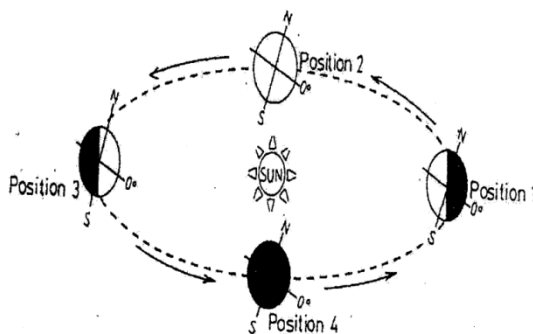
Question	1	2	3	4	5	6	7	8	9	10
Marks										

*This paper consists of 4 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing.*

### SECTION A

**Answer ALL the questions in this section**

1. Study the diagram below and then answer the following questions



- (a). How long (in days ) does it take the earth to move from position 2 to position 1 during a leap year? (2mks)
- (b). State **three** effects of the movement of the earth represented above (3mks)
2. (a). Define the term microclimates (2mks)
- (b). Identify **three** characteristics of convectional rainfall (3mks)
3. Describe **two** process through which wind erode desert landscape (6mks)
4. (a). What is natural vegetation? (2mks)
- (b). State **three** characteristics of Mediterranean type of vegetation (3mks)
5. (a). What is contact metamorphism? (2mks)
- (b). Identify the resultant metamorphic rocks when the following rocks are metamorphosed.
- (i). Granite (1mk)
- (ii) Limestone (1mk)

### SECTION B

6. Use the map of Migwani(1:50,000)provided to answer the following questions
- (a). i) What is the length of the dry weather road from grid square 9278 to the end in grid square 0083. (2mks)
- Give your answer in kilometers
- (ii) Calculate the area enclosed by all weather road loose surface and the dry weather road from grid square 9278 to 0083 in the Northwest part of the area covered by the map. (3mks)
- Give your answer in km<sup>2</sup>
- (b). (i) Give the appropriate height of Kyoom Hill. (2mks)
- (ii). Describe the relief of the area covered by the map (4mks)
- (c). Citing evidence from the map, Identify four social services offered in Migwani town (4mks)

(d). (i) Enlarge the area enclosed by Eastings 08 and 11 and Northings 63 and 66 twice (2mks)

(ii) On the enlarged map mark and name

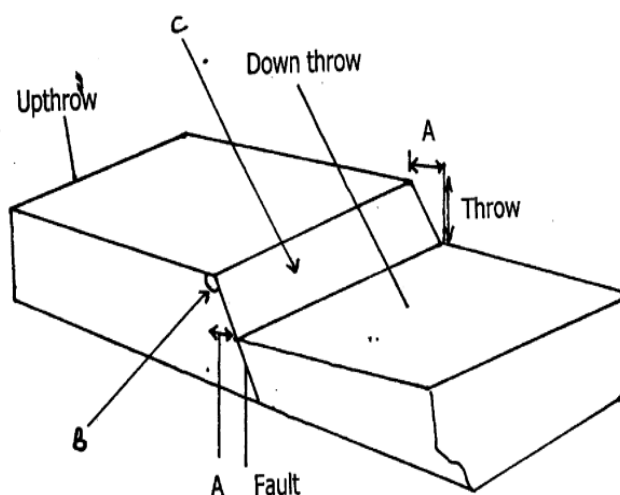
- Water pipeline
- Dry weather roads
- Water tank

(e). Form four students from Mutitu Secondary School conducted a field study in Mutito forest. Explain two problems that the students faced while conducting the study that might have led to collection of unreliable data. (4mks)

7. (a). (i). Differentiate between orogenesis and orogeny (2mks)

(ii). Name **two** Fold Mountains of the alpine orogeny (2mks)

(b). **The following diagram represents a faulted landscape. Use it to answer the following questions.**



(i). Name the parts marked A,B and C (3mks)

(ii). Using well labeled diagrams ,Describe how a rift valley is formed through anticlinal arching (7mks)

(c). State **three** effects of faulting on drainage (3mks)

(d). Explain the effects of Fold Mountains to human activities (8mks)

8. (a) (i). Differentiate between weathering and mass wasting (2mks)

(ii). Identify **three** agents of weathering (3mks)

(b). Describe how the following processes of weathering occur

(i). Pressure release or unloading (4mks)

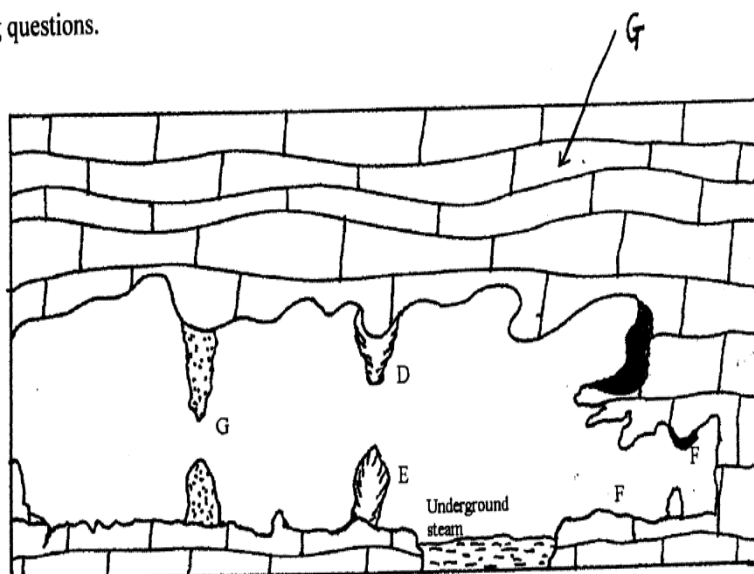
(ii). Carbonation (3mks)

(c). Explain the significance of weathering to human activities (8mks)

- (d). Form four students from Danish Obara Secondary School conducted a field study on weathering around their school
- (i). State **three** preparation they made before the field study (3mks)
- (ii). Write down **two** hypotheses they formulated to guide the study (2mks)
9. (a). Distinguish between catchment area and a drainage basin (2mks)
- (b). (i). Describe **two** processes through which a river transport its load (6mks)
- (ii). State **four** factors which influence the ability of a river to transport its load(4mks)
- (c). Using a well labeled diagram, explain how an ox-bow lake is formed (7mks)
- (d). (i). What is the difference between drainage pattern and drainage system? (2mks)
- (ii). State **five** importance of rivers to human activities (5mks)
10. (a). (i). Differentiate between an aquifer and an aquifuge (2mks)
- (ii). Name **three** sources of underground water (3mks)
- (b). State four conditions necessary for the formation of artesian wells (4mks)
- (c). (i). Name **four** surface features formed in areas dominated by limestone (3mks)

(ii). The diagram below represents underground features formed in a karsts landscape .Use it to answer the following questions

the following questions.



- (i). Name the features marked D,E and G (3mks)
- (ii). Describe how a limestone pillar is formed (3mks)
- (d). Explain three effects of karst scenery to human activities (6mks)



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*Kenya Certificate of Secondary Education*

### **INTRODUCTION TO CANDIDATES**

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- ii) *Answer All questions in section A .In section B answer question 6 and any other two questions from this section*
- iii) *All answers must be written on the answer booklet provided*

SECTION A (25 MARKKS)  
Answer all the questions in this section

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Question	1	2	3	4	5	6	7	8	9	10
Marks										

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1. (a). What is water pollution ? (2mks)  
(b) state three sources of pollution along the East African Coastal waters (3mks)
2. (a) Differentiate between *biomass* and *biogas* forms of energy (2mks)  
(b). Give three reasons why the two sources in 2 (a) above should be developed (3mks)
3. (a). Name two counties in Rift Valley where Dairy farming is practiced in Kenya (2mks)  
(b) State four problems facing dairy farmers in Kenya (4mks)
4. (a) State three physical factors that favor the growth of cocoa in Ghana (3mks)  
(b) Name two countries which imports cocoa from Ghana as a raw material(2mks)
5. (a) Define international trade (1mk)  
(b) Give three reasons why Kenya's trade is mainly in raw form rather than finished products (3mks)

**SECTION B (75 MARKS)**

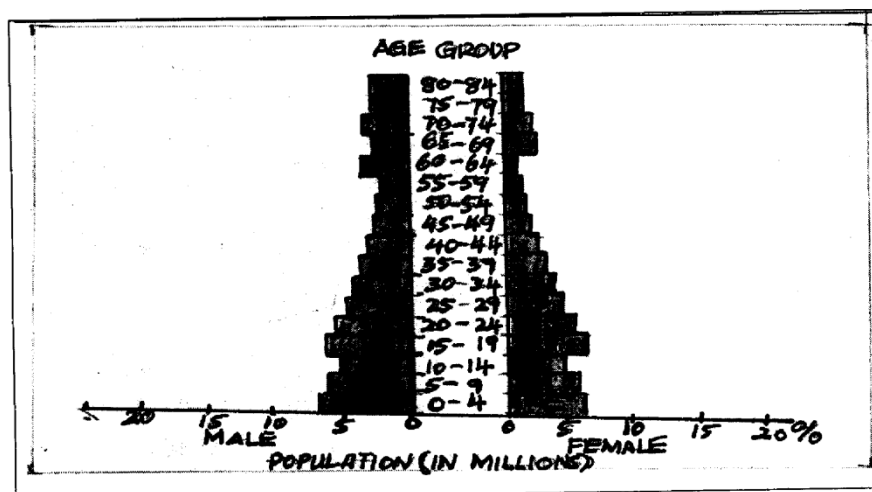
*Answer questions 6 compulsory and any other two questions from this section*

6. The table below shows horticultural crops exported by Kenya in the year 2010 to European Union. Study it and answer the questions that follow

CROP	QUANTITY IN TONNES
Flowers	42,500
Oranges	28,700
Tomatoes	21,600
Carrots	15,400

- (a) Draw a divided rectangle 15 cm long by 6 cm wide to represent horticultural crop production in Kenya in year 2010 using the data above (show your workings/calculations) (8mks)
- (b). Calculate the range of the above data (1mk)
- (c). Apart from divided rectangles, Name two other appropriate ways of representing the above data (2mks)

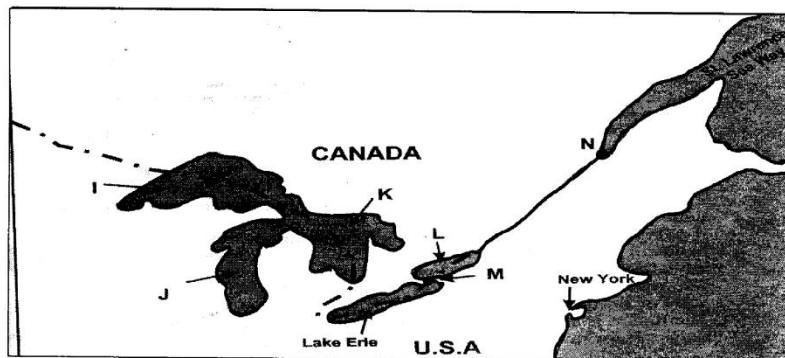
- (d). Name two deciduous fruits exported by Kenya to European Union market(2mks)
- (e) Explain two physical conditions favoring the development of horticultural industry in Naivasha (4mks)
- (f). Explain how the Kenya Government is addressing problems facing horticultural farmers (8mks)
7. (a). i). What is agro forestry? (1mk)
- ii). Explain four reasons why agro forestry is being encouraged In Kenya(8mks)
- (b). Give three examples of softwood trees found in Kenya (2mks)
- (c). Explain four characteristics of softwood forests in Canada (8mks)
- (d). State problems affecting forestry in Canada (5mks)
8. (a) i) Define Age-structure (2mks)
- ii). What was the population growth rate in Kenya in 1999,if the crude birth rate was 52 per 1,000 of the population and the crude death rate was 14 per 1,000 of population? (2mks)
- iii). State three reasons why it is necessary to carry out population census (3mks)
- (b). Account for the high population density in the Kenyan highlands (2mks)
- (c) The pyramid below represents the population structure of Country X.Use it to answer questions that follow.



- i. Describe the characteristics of the population represented by the pyramid (5mks)
- ii. Other than migration,explain three factors influencing population growth and structure (6mks)



- iii. State two positive effects of population growth and structure (2mks)
- iv. Give three problems that could arise from overpopulation (3mks)
- 9. (a). Explain how the following factors influence mining (3mks)
  - i). Capital
  - ii) Value of mineral (3mks)
- (b). Name four methods of underground mining (4mks)
- (c) Explain five factors which influence occurrence of minerals. (10mks)
- (d). Explain how gold is processed to its finest form (5mks)
- 10. Study the map of the Great Lakes and the St. Lawrence Seaway below and answer the question that follow



- (a). Name
  - i). The port marked N (1mk)
  - ii) The waterfall marked M (1mk)
  - iii). The lake marked I, J, K and L (4mks)
- (b). Explain five ways in which the great lakes and St. Lawrence Seaway has contributed to the economy of U.S.A and Canada (10mks)
- (c). i). State three recent developments that have taken place in Kenya to improve communication (3mks)
- ii). Explain three problems facing telephone as a means of communication in Kenya (6mks)