NAME: …… RANDOM NO .....

DATE……

CANDIDATE'S SIGN……

312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST - 2015
TIME: 2 ¾ HOURS

TRANS-NZOIA COUNTY JOINT EVALUATION EXAM – 2015

Kenya Certificate of Secondary Education (K.C.S.E)

312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST - 2015
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INSTRUCTIONS TO THE CANDIDATES

- This paper has ***two sections.*** Section **A** and **B**.
- Answer **all** the questions in **section A.**
- Answer **question 6** and any other **two** questions from section **B.**
- All answers **must** be written in the answer booklet provided.
- Candidates should answer the questions in **English.**

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

SECTION A: (25 MARKS

Answer all the questions in this section.

1. (a) Name the main types of environment. (2 mks)

(b) State **three** ways a civil engineer benefits from the study of Geography. (3 mks)

2. (a) List **three** main forces responsible for the ageoid shape of the earth. (3 mks)

(b) State **two** ways geographers study the interior of the earth crust. (2 mks)

3. (a) Give **two** reasons why sedimentary rocks are dominant along the coast of Kenya. (2 mks)

(b) State **three** main characteristics which determine the chemical composition of igneous rocks. (3 mks)

4. (a) Define weather. (2 mks)

(b) State **three** reasons why chemical weathering is prevalent in equatorial climate. (3 mks)

5. (a) Use the table below to answer the questions that follow:

MONTHS	**J**	**F**	**M**	**A**	**M**	**J**	**J**	**A**	**S**	**O**	**N**	**D**
TEMP^0	23	23	23	24	23	22	23	22	23	23	24	23
RAIN (MM)	1313	1400	1502	1460	1480	1480	1500	1508	1300	1480	1508	1490

(a) Calculate:

(i) Temperature range (1 mk)

(ii) Annual rainfall (1 mk)

(b) Describe the characteristics of the climate experienced in the above climatic region. (3 mks

SECTION B

Answer question 6 (compulsory) and any other two questions.

6. Study the map of MIGWANI (1: 50,000) sheet 151 | 1 provided and answer the following questions.

(a) (i) Convert the scale of the map into statement scale. (1 mk)

(ii) Identify a drainage related feature found in grid 0736978. (1 mk)

(b) (i) Give **two** types of natural vegetation found to the East of easting 10. (2 mks)

(ii) Describe the relief of the area covered by the map. (5 mks)

(c) (i) Citing evidence give **four** functions of the GWANI centre. (4 mks)

(ii) Measure the length of the dry weather road from the junction grid reference 923789 to grid reference 001840 in km. (2 mks)

(d) (i) Reduce by 2 and draw a rectangle to represent the area bound by Eastings 00 and 10 and Northings 62 and 70. (2 mks)

(ii) In the rectangle you have drawn, label

- Forest (1 mk)
- River Vinda (1 mk)
- Dry Weather road (1 mk)

(iii) Give the new scale of the drawn rectangle. (1 mk)

(e) Some students were requested to carry out field study on drainage patterns in the area covered by the map.

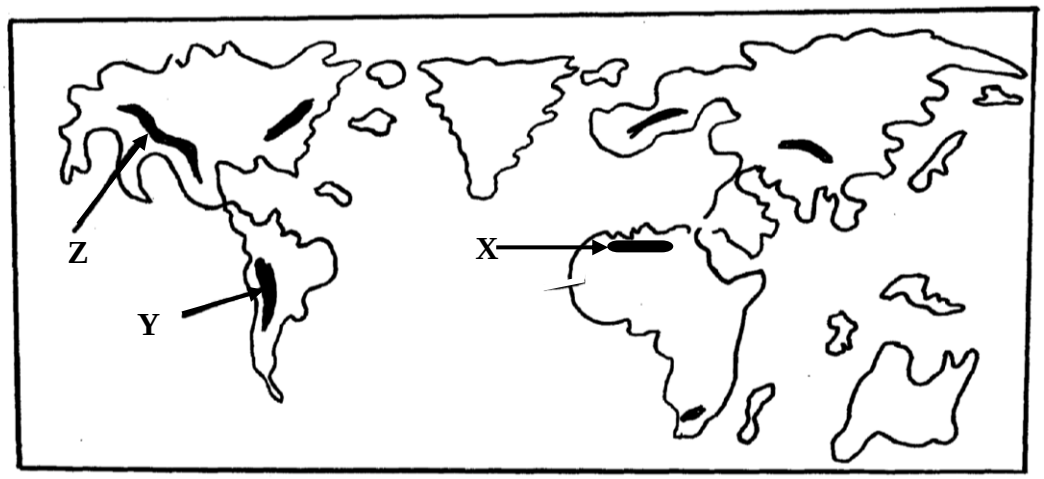
(i) Name **two** drainage patterns they observed in the area covered by the map. (2 mks)

(ii) State **two** problems likely to be experienced during the field study. (2 mks)

7. (a) (i) Define **folding**. (2 mks)

(ii) Name the **main** cause of folding of crustal rocks. (1 mk)

(b) Study the world map provided and answer the questions below:-



(i) Name the fold mountains marked **X, Y, Z.** (3 mk)

(ii) Using diagrams, show how the continental drift theory explains the formation of fold mountains. (10 mks)

(c) Students of a school in Trans-Nzoia County intend to carry out a field study on folding.

(i) Give **three** reasons why they require a working schedule. (3 mks)

(ii) List **two** methods of data analysis. (3 mks)

(d) List **four** positive effects of Fold Mountains on human activities. (4 mks)

8. (a) (i) Distinguish between a river tributary and a river confluence. (2 mks)

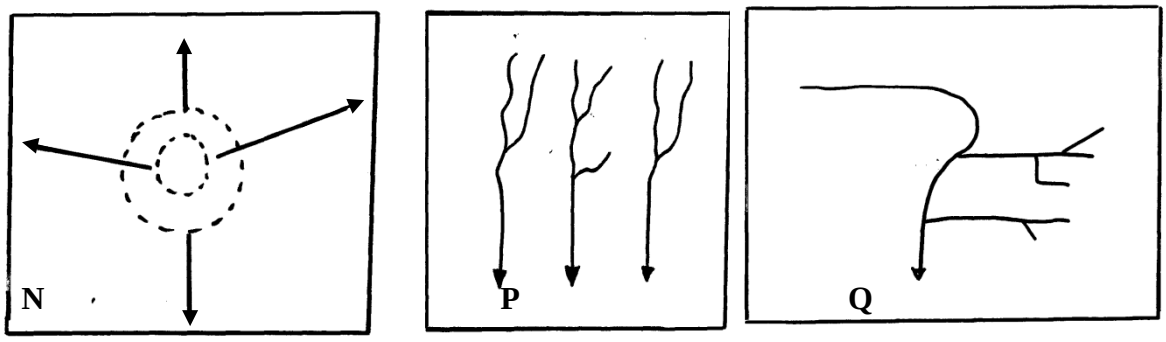
(ii) Describe how a river erodes its channel by the following processes.

- Hydraulic action (3 mks)
- Corrasion (3 mks)

(b) (i) Explain **three** factors which influence the rate of river erosion. (6 mks)

(ii) State **three** reasons why levees and raised river beds make flooding more dangerous. (3 mks)

(c) The diagrams below represent drainage patterns.

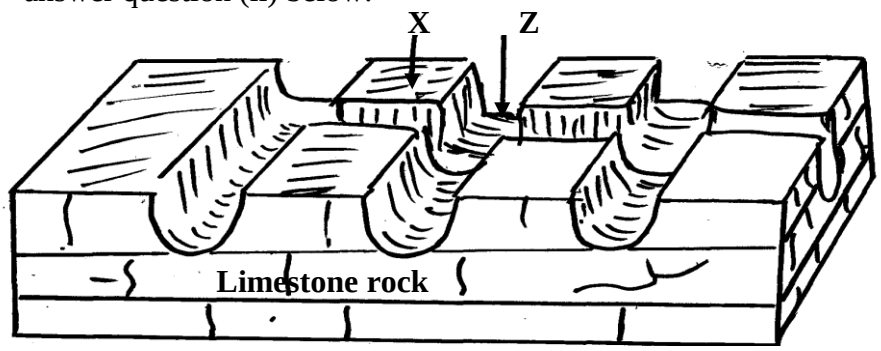


(i) Identify the drainage patterns **N, P** and **Q**. (3 mks)

(ii) Describe how a river capture occurs. (5 mks)

9. (a) (i)Define the term Karst Scenery**.** (2 mks)

(ii) The diagram below shows some of the surface features in a Karst Scenery. Use it to answer question (ii) below.



Name the features marked **X** and **Z**. (2mks)

(i) Describe how a stalagmite is formed. (5 mks)

(ii) State **five** conditions necessary for the development of a Karst landscape. (5 mks)

(c) Students of a school in Machakos County intend to carry out a field study in a limestone area.

(i) Name **three** methods of data collection. (3 mks)

(ii) List **two** problems students are likely to encounter during the field study. (2 mks)

(d) Explain **three** significance of limestone landscape on human activities. (6 mks)

10. (a) (i) Differentiate between parent material and bed rock. (2 mks)

(ii) Name **two** types of soil according to texture. (2 mks)

(b) (i) Explain how each one of the following factors influence soil formation.

- Parent rock (3 mks)
- Topography (3 mks)
- Living organisms (3 mks)

(ii) State **four** factors which are responsible for the development of a soil catena. (4 mks)

(c) (i) State **two** causes of soil degeneration. (2 mks)

(ii) Give **four** characteristics of desert soils. (4 mks)

(iii) State **two** ways of conserving soil. (2 mks)