**Name………………………………………………………………... Index No :……………………………...**

 Candidate’s Signature …………………………

 Date: ………………………………...

**312/1**

**GEOGRAPHY**

**THEORY**

**PAPER 1**

**JULY/AUGUST 2014**

**TIME: 23/4 HOURS**

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

**312/1**

**Geography**

**Paper 1**

**23/4 hours**

**INSTRUCTIONS TO CANDIDATES**

* *This paper consists of sections A and 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 4 printed pages. Candidates should check to ascertain that all pages are indicated and that no question are missing*

**SECTION A: 25 MKS**

**Answer all questions in this section**

1. (a) Differentiate between rotation and revolution of the earth (2mks)

 (b) Study the diagram below and answer the questions that follow

**Date B**

**0o**

**0o**

**S**

**N**

**N**

**S**

**0o**

**June 21st**

**N**

**S**

**0o**

**Date A**

**Dec 22nd**

**0o**

**S**

**N**

 Identify

 (i) The season marked **X** (1mk)

 (ii) The date marked by **A** (1mk)

 (c) State **one** characteristic of the summer solistice (1mk)

2. The diagram below shows same types of folds. Use it to answer question (a)

**Anticline**

**Syncline**

**E**

**F**

**G**

**Fault**

**Increasing stress**



 (a)Name the type of folds marked **E**,**F** and **G**  (3mks)

 (b) State **two** causes of folding (2mks)

3. (a) State **three** ways in which wind transports its load (3mks)

 (b) Identify **two** features produced by water in arid areas (3mks)

4. (a) Describe how Lake Victoria was formed (3mks)

 (b) State the economic importance of lake Naivasha (2mks)

5. The diagram below represents underground features in a limestone area. Use it to answer question (a)

**Y**

**X**

**Cavern**

**V**

 (a) Name the features marked **X** and **Y** (2mks)

 (b) Describe how the feature marked **V** is formed (3mks)

 **SECTION B**

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

6. (a) (i) Identify two physical features found in grid square 0450 (2mks)

 (ii) What is the position of Airport principal point +13A/97 5047 in grid square 9354

 using latitudes and longitudes (2mks)

 (iii) Measure the length of the all weather road loose surface E1706 from the junction at

 the market grid square 867576. Give your answer in metres (2mks)

 (b)(i) Draw a cross section along Northing 51 between Eastings 82 and 88 . Use a scale 1cm rep

 50ft. On the section mark and name

 River Sagana

 Loose surface road

 Hill

 River Rathithi (7mks)

 (ii) Calculate the vertical exaggeration of the section (2mks)

(c) Citing evidence from the map, state four economic activities of the area covered by the map (4mks)

(d) Explain how relief has influenced the distribution of settlement in the area covered by the

Map (4mks)

7. (a) State **three** characteristics of Inter-Tropical convergence zone (3mks)

 (b) Describe the characteristics of Equitorial climate (6mks)

 (c)(i) State **three** different ways by which air condences to form rainfall may be made to rise(3mks)

 (ii) With the aid of a well –labelled diagram, describe how relief rainfall is formed (6mks)

(d) Form 4 students of Rabwao secondary school is planning to conduct a field study in a

 weather station near their school.

 (i) State **three** ways in which they will prepare for the study (3mks)

 (ii) Describe how they would use a rain gauge to collect their data (4mks)

8. (a) What is the different between mass wasting and weathering (2mks)

 (b) (i) Apart from soil creep, name two other processes of slow mass movement (2mks)

 (ii) Explain **three** causes of soil creep (6mks)

 (iii) Explain **three** physical conditions that influence landslides (3mks)

 (c) Describe the following processes of mass wasting

 (i) Rock fall (2mks)

 (ii) Subsidence (2mks)

 (iii) Mud flows (2mks)

 (d) Explain the effect of weathering in the following

 (i) Tourism (2mks)

 (ii) Agriculture (2mks)

 (iii) Pottery (2mks)

9. (a) (i) What are tides? (2mks)

 (ii) Give **four** causes of ocean currents (4mks)

 (b) State **four** factors that influence the development of coasts (4mks)

 (c) The diagram below represents some coastal features. Use it to answer the questions below

**R**

**P**

**Q**

**SEA**

**LAND**

 (i) Name the features marked **Q** and **R** (2mks)

 (ii) Describe how the feature marked **P** is formed (5mks)

 (d) Explain four ways in which coastal landforms is significant to the economy of Kenya (8mks)

10. (a) (i) What is a glacier? (2mks)

 (ii) Name **two** mountains in E. Africa where glaciers are found (2mks)

 (b) (i) Describe plucking as a process in glacial erosion (4mks)

 (ii) State **three** factors that influence glacial erosion (3mks)

 (c) Describe how the following features are formed

 (i) Pyramidal peak (4mks)

 (ii) Hanging valley (4mks)

 (d) Explain **three** negative effects of glaciations (6mks)