

312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST 2017
TIME: 2³/₄ HOURS

SCHOOL BASED EXAMINATION – FORM 4 2017
KENYA CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS TO CANDIDATES.

- (a) This paper has **two** sections **A** and **B**.
- (b) Answer all the questions in section **A**.
- (c) Answer question **6** and any other **two** questions from section **B**.
- (d) All answers **must** be written in the answer booklet provided.
- (e) This paper consists of **4** printed pages.
- (f) Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.
- (g) Candidates **must** answer all the questions in English.

SECTION A (25 marks)

Answer all questions in this section.

1. (a) Distinguish between absolute and relative humidity. (2 marks)

(b) State **two** factors that influence humidity. (2 marks)

2. (a) What is an earthquake? (2 marks)

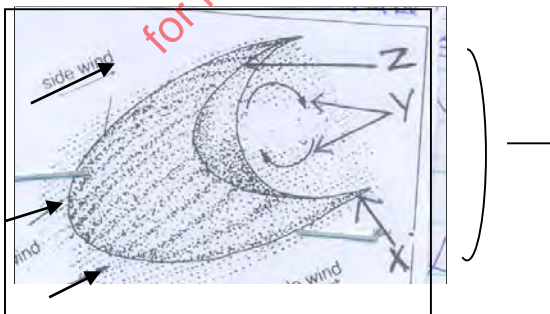
(b) List **three** natural causes of earthquakes. (3 marks)

3. (a) Give **two** types of earth movement. (2 marks)

(b) Define a glacier. (2 marks)

4. (a) Give **two** processes through which wind erodes the earth surface. (2 marks)

(b) The diagram below represents a feature found in a desert landscape.



(i) Name the feature. (1 mark)

(ii) Identify the:-

(i) The part marked **X**. (1 mark)

- (ii) Air current marked **Y**. (1 mark)
- (iii) The slope marked **Z**. (1 mark)
- (iv) The slope marked **K**. (1 mark)

5. (a) Name **three** types of faults. (3 marks)
- (b) Apart from compressional forces give **two** other forces that cause faulting. (2 marks)

SECTION B (75 marks)

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

6. Study the map of Kitale 1:50,000 sheet 75/3 provided and answer the following questions.

- (a) (i) Name **two** natural features found in grid square 2823. (2 marks)
- (ii) Determine the distance of road B 10/2 from Knights corner junction with Road C 637 to Kitale. (2 marks)
- (iii) State **two** functions of Kitale town. (2 marks)
- (iv) Convert the scale of map into statement scale. (2 marks)
- (b) Draw a rectangle 14 cm by 7 cm to represent a section of the map enclosed by Easting 24 and 31 and Northings 11 and 14. (1 mark)
- On the rectangle, mark and name the following features:-
- (a) Culvert. (1 mark)
 - (b) Papyrus swamp. (1 mark)
 - (c) Municipality boundary. (1 mark)
 - (d) River Koitobos. (1 mark)
 - (e) All weather road – loose surface. (1 mark)
- (c) Explain **three** factors which have influenced the distribution of settlements in the area covered by the map. (6 marks)

(d) Describe the relief of the area covered by the map. (5 marks)

7. (a) Name **four** components of soils. (4 marks)

(b) State **two** economic uses of soils. (2 marks)

(c) Explain how the following factors influence soil formation. (2 marks)

(i) Parent rocks. (2 marks)

(ii) Biotic factors. (2 marks)

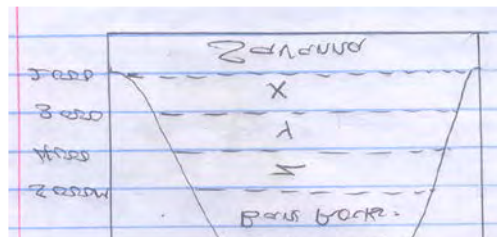
(d) (i) Other than soil erosion, state three other ways in which soils may be degenerated. (3 marks)

(ii) Briefly explain three effects of soil erosion to human activities. (6 marks)

(e) You intend to carry out field study on soil around your school. (i) Name **three** equipments you will be required to carry and their purpose. (3 marks)

(ii) State **three** preparations you will be required to make before going out for the field study. (3 marks)

8. The diagram below shows mountain vegetation zone, use it to answer the questions that Follows.



- (a)(i) Name vegetation zones marked:
- X** (1 mark)
- Y** (1 mark)
- Z** (1 mark)
- (ii) State **two** reasons why the mountain top has no vegetation. (2 marks)
- (iii) Explain **three** factors that have led to the decline of natural grasslands in Kenya. (6 marks)
- (b) (i) State **five** characteristics of tropical rainforest. (5 marks)
- (ii) What ways are desert plants adapted to the desert climatic conditions? (5 marks)
- (c) You are to carry out field study on the forest vegetation around Mau region.
- (i) State **two** reasons why it is necessary to have a route map. (2 marks)
- (ii) Give **two** reasons why you need a tape measure. (2 marks)
9. (a) What is folding? (2 marks)
- (b) (i) Name **four** types of folds. (4 marks)
- (ii) Name **four** orogenies known in geological history. (4 marks)
- (c) With the aid of well labeled diagrams, use plate tectonics theory to explain the Formation of fold mountains. (6 marks)
- (d) Apart from fold mountains name three other features resulting from folding. (3 marks)
- (e) Explain **three** ways in which folding influence human activities. (6 marks)

- 10.(a) (i) Differentiate between river discharge and river regime. (2 marks)
- (ii) Explain **two** causes of river rejuvenation. (4 marks)
- (b) With the aid of well labeled diagrams describe the process of river capture. (6 marks)
- (c) Describe **three** ways through which a river transports its load. (6 marks)
- (d) You intend to carry out a field study on a river in its old stage.
- (i) Give **two** possible features you are likely to identify. (2 marks)
- (ii) Identify **two** possible problems you are likely to encounter. (2 marks)
- (iii) Give **three** methods of data collection you would use. (3 marks)

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