

Name: _____ Index No: _____

School: _____ Candidate's Sign _____

Adm.No _____ Date: _____

**312/1
GEOGRAPHY
Paper 1**

**MARCH/APRIL 2020
Time: 2 ¾ Hours**

**ARISE AND SHINE TRIAL 1 EXAM
MARCH/APRIL-2020**

312/1
GEOGRAPHY
Paper 1
March/April, 2020
Time: 2 ¾ Hours

Instructions to Candidates:

- a) This paper has two sections: **A** and **B**.
- b) Answer **all** questions in section **A**
- c) Answer **question 6** and any **two other** questions from section **B**.
- d) This paper consist of **4** printed pages
- e) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing**
- f) **Candidates should answer the questions in English.**

FOR EXAMINERS USE ONLY

SECTION A

Question number	1	2	3	4	5	Sub Total
Marks						

Grand total

SECTION B

Question number	6	7	8	9	10	Sub Total
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Marks						
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SECTION A

Answer All Questions in This Section

1. (a) What is a Stevenson screen? (2 marks)
(b) Name **two** forms of precipitation that commonly occur in Kenya (2 marks)

2. (a) State **three** characteristics of the crust (3 marks)
(b) Give **three** reasons why the intensity of insolation is higher at equator than at Polar Regions. (3 marks)

3. (a) Identify **two** theories used to describe the origin of Fold Mountains. (2 marks)
(b) Give **three** effects of Fold Mountains on climate. (3 marks)

4. (a) Name **two** types of earth movements that occur within the earth's crust. (2 marks)
(b) Name **three** tectonic plates (3 marks)

5. (a) Define faulting (2 marks)
(b) State **three** effects of faulting on human environment (3 marks)

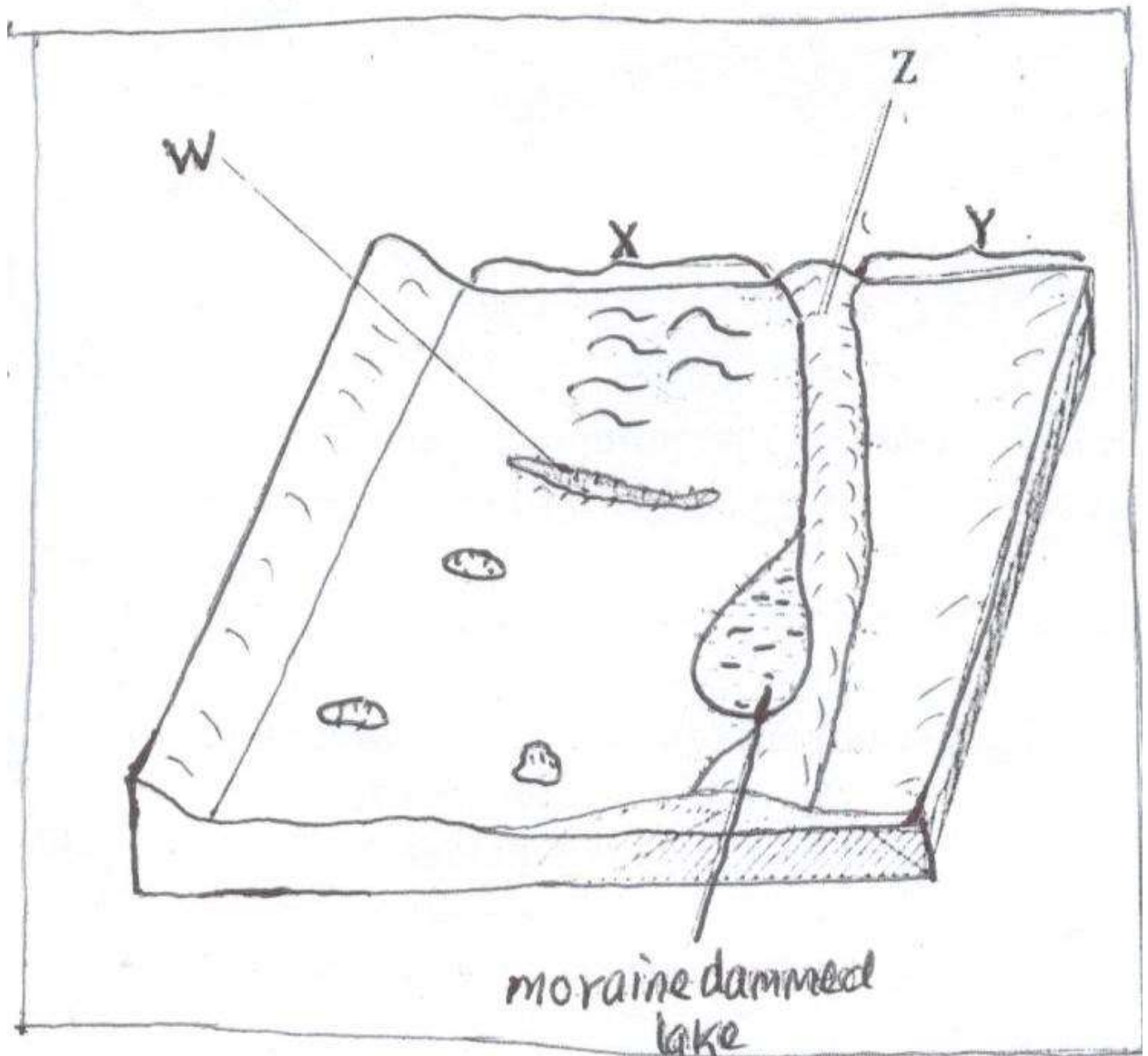
SECTION B

Answer Question 6 and Any Other Two Questions in This Section

6. Study the map of Yimbo 1:50,000 (sheet 115/1) provided and answer the following questions
 - a) What is the map name of the extract given? (1 mark)
 - b) Name the type of boundaries in the map extract. (2 marks)
 - c) Calculate the area of Mageta island (2 marks)
 - d) (i) Using a scale of 1cm represent 20M, draw a cross-section from grid reference 270850 to 330850. (4 marks)
On it, mark and name the following features:
 - Forest
 - Hill
 - River
 - Swamp(ii) Calculate the vertical exaggeration of the map. (2 marks)
 - e) Describe the long profile of River Yala. (5 marks)
 - f) Citing evidence from the map, explain the factors that influence trade in the area covered by the map. (6 marks)

7. (a) Define the following
 - (i) Aridity (2 marks)

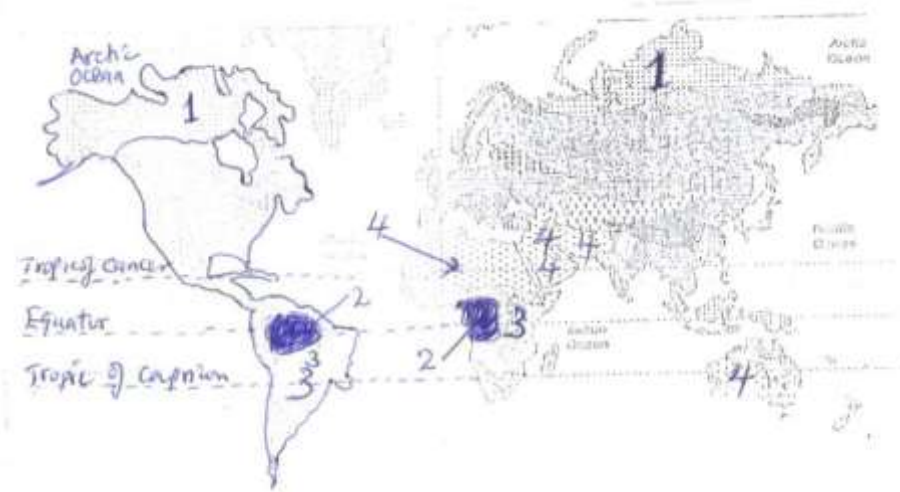
- (ii) Wind (2 marks)
- (b) (i) Explain **three** ways in which wind erodes weathered materials in arid areas. (6 marks)
- (ii) Name **three** features which develop under arid conditions as a result of wind erosion. (3 marks)
- (c) State **four** factors which influence wind transportation in desert. (4 marks)
- (d) (i) Apart from Wadis, name any **three** resultant features of water action in arid areas. (3 marks)
- (ii) Describe the formation of a Wadi. (5 marks)
8. (a) What is a glacier? (2 marks)
- (b) Describe how the following glacial erosional processes occur.
- (i) Plucking (3 marks)
- (ii) Abrasion (3 marks)
- (c) The diagram below shows features on a glaciated lowland.



- (i) Name the features marked **W**, **X**, **Y** and **Z**. (4 marks)
- (ii) Describe how a drumlin is formed. (5 marks)
- (d) Explain **four** negative effects of glaciations in low-land areas. (8 marks)

- 9. (a) (i) Define weathering (2 marks)
- (ii) Explain the following processes of weathering
 - a. Hydration (2 marks)
 - b. Oxidation (2 marks)
 - c. Frost action (3 marks)

- (b) State **three** conditions that influence the process of Solifluction. (3 marks)
 - (c) Describe how an exfoliation dome is formed. (5 marks)
 - (d) Explain **four** physical factors that enhance movement of material along the slope due to gravity. (8 marks)
10. (a) Define the term vegetation. (1 mark)
- (b) Explain how the following factors influence the distribution of vegetation.
 - (i) Aspect (2 marks)
 - (ii) Relief (4 marks)
 - (c) The map below shows world vegetation zone



- (i) Name vegetation type marked 1, 2, 3 and 4. (4 marks)
- (d) Explain **four** ways in which trees in coniferous forests are adapted to the climatic conditions. (8 marks)
- (e) A form four Geography class is planning to carry out a field study in Kakamega forest.
 - (i) State how they would use the following tools during the study.
 - a. A tape recorder (1 mark)
 - b. A sketch map (1 mark)
 - c. A camera (1 mark)
 - (ii) Give **three** methods they would use to collect the data during the study. (3 marks)