



Name:
 School:

Class.....
 Adm. No.

312/1
 GEOGRAPHY
 FORM 4
 PAPER 1
 MARCH, 2019
 TIME: 2 ¼ HOURS

INTERCOUNTY JOINT EXAMINATION

Kenya Certificate of Secondary Education

Instructions to the candidates.

- (i) *This paper has two Sections: A and B.*
- (ii) *Answer all questions in Section A.*
- (iii) *In Section B Answer question 6 and any other two questions.*
- (iv) *All answers must be written on a separate answer sheet provided.*
- (v) *All answers MUST be written in Blue Pen.*

FOR OFFICIAL USE ONLY

SECTION A	1	2	3	4	5

SECTION B	6	7	8	9	10

TOTAL

This paper consists of five printed pages.

Candidates should check to ensure that all pages are printed as indicated and no question(s) is missing.

SECTION A

1. (a) State the earth's inclination to;
 - (i) Its axis. (1 mark)
 - (ii) Its orbit. (1 mark)(b) Give three reasons why the length of day and night vary from one part of the earth to another. (3 marks)
2. (a) Differentiate between fog and frost. (2 marks)
(b) Describe how to measure humidity using a hygrometer. (3 marks)
3. (a) Define **Air Mass**. (2 marks)
(b) State three characteristics of mountain climate. (3 marks)
4. (a) Give two examples of organically formed sedimentary rocks. (2 marks)
(b) State three ways in which rocks are classified. (3 marks)
5. State five conditions which favour formation of a blowhole. (5 marks)

SECTION B

6. (a) (i) What is the sheet number. (2 marks)
- (ii) Convert the map's RF scale to linear Scale. (2 marks)
- (iii) State the index to adjoining sheets to the:-
- North (1 mark)
 - North East. (1 mark)
- (b) (i) Measure the distance of all-weather roads loose surface D538 from Grid square 2318 to 2422 in kilometers. (2 marks)
- (ii) Identify three human features in grid square 3115. (3 marks)
- (c) (i) Reduce by half the area to east of eating 36 and South of Northing 20. On it mark and label. (6 marks)
- Taita Sisal Estate,
 - Road A23
 - River Voi
- (ii) Calculate the new scale. (2 marks)
- (d) Describe how relief influences drainage in Taita Hills. (6 marks)
7. (a) (i) Define Secondary vegetation. (2 marks)
- (ii) State three geomorphic factors that influence distribution of vegetation. (3 marks)
- (b) State characteristics of Tropical Savana vegetation. (7 marks)
- (c) Explain how climate influences distribution of vegetation. (8 marks)
- (d) Your class went for a field study to a grass land near your school.
- (i) Give two activities you would carry out before departure to the field. (2 marks)
- (ii) State three uses of the grassland that you could identify. (3 marks)

8. (a) (i) Differentiate between piedmont glacier and Nicher glacier. (2 marks)
- (ii) Describe glacial erosion through nivation. (3 marks)
- (b) Describe the formation of;
- (i) Terminal moraine (7 marks)
- (ii) Erratic's (7 marks)
- (c) Explain three positive significance of glaciation. (6 marks)
9. (a) Differentiate between a Desert and Desertification. (2 marks)
- (b) Give **five** characteristics of a rock pedestal. (5 marks)
- (c) Describe the formation of the following features.
- (i) Yardang (8 marks)
- (ii) Mesas and Buttes (8 marks)
- (d) Name two continental deserts. (2 marks)
10. (a) (i) Name **three** Lava Dammed Lakes. (3 marks)
- (ii) State three factors affecting permanency of a lake. (3 marks)
- (b) Explain four ways in which Lake Victoria influences climate. (8 marks)
- (c) Describe how the following lakes were formed.
- (i) Lake Kyoga (4 marks)
- (ii) Lake Natron (4 marks)
- (d) Give reasons why some lakes are fresh. (3 marks)