

Geography 2
750

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

JUNE 2011

ADVANCED LEVEL

Subject Title	Geography
Paper No./Title	Paper 2
Subject Code No.	750

THREE AND A QUARTER HOURS

Answer **QUESTION ONE** and **THREE** others, choosing at least **ONE** question from each of **SECTIONS B and C**.

Question 1 carries **31** marks and the rest of the questions carry twenty-three marks each.

Only the **required** number of questions will be marked.

In answering questions on this paper, you are encouraged to refer to your own field and practical work where relevant. Credit will be awarded for such references.

Candidates are advised **NOT** to attempt the questions on fieldwork if such an exercise has not been carried out.

Marks will be awarded for well annotated maps and diagrams where these are relevant.

You are reminded of the necessity for good English and orderly presentation in your answers.

Non - programmable calculators are allowed.

Materials required. Graph Paper.

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SECTION A

1. Study the map extract of Yabassi and its environs and answer the following questions; (31 marks)
- (a) Using a sketch map, describe the relief characteristics of the whole map extract. (10 marks)
 - (b) (i) Calculate the sinuosity index of the River Nkam from 960800 to 980830. (4 marks)
(ii) Comment on the result obtained. (2 marks)
 - (c) Comment on:
(i) the site, and (3 marks)
(ii) the situation of Yabassi (5 marks)
 - (d) Suggest and justify the types of human and economic activities along the valley of River Nkam. (7 marks)

SECTION B

2. **Either**
- Based on fieldwork you have undertaken in physical Geography, choose one of the following topics;
- (i) Stream velocity
 - (ii) Volcanic landscape
 - (iii) Vegetation transect

- (a) Locate your area where the fieldwork was carried out. (5 marks)
- (b) State your objectives, hypotheses and explain the preparations you made. (6 marks)
- (c) What was your method of investigation? (4 marks)
- (d) How was your data processed and presented? (5 marks)
- (e) What were your conclusions? (3 marks)

Or

Based on fieldwork you have undertaken in Human Geography, choose one of the following topic areas:

- (i) Functional segregation in C.B.D
- (ii) Modern farm
- (iii) Rural settlement Patterns

- (a) Locate the area where your fieldwork was carried out. (5 marks)
- (b) State your hypothesis (hypotheses) and explain the preparations made. (6 marks)
- (c) What was your method of investigation? (4 marks)
- (d) How was your data processed and presented? (5 marks)
- (e) What are your conclusions? (3 marks)

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3. Discuss the ways in which Urban areas modify their local climate. (23 marks)
4. (a) Explain what is meant by evapotranspiration. (8 marks)
(b) Examine the factors that cause spatial variations in evapotranspiration rates. (15 marks)
5. Discuss the causes and distribution of earthquakes on the earth's surface. (23 marks)
6. "Variations in the nature of a coastline are essentially the result of a number of important factors that influence all coasts". Discuss. (23 marks)
7. "Man is essentially a destructive factor of soils". Examine the validity of this statement (23 marks)
8. (a) Explain the concept of climax vegetation. (7 marks)
(b) How far do tropical grasslands reflect the climax vegetation? (16 marks)

9. Table 1 below shows the temperature and rainfall data for Sangmelima, South region of Cameroon (rounded to nearest whole numbers in mm).

	J	F	M	A	M	J	J ₂	A	S	O	N	D
T°C	23	26	27	25	25	24	23	23	24	24	23	23
Rainfall (mm)	0	13	82	186	269	149	90	45	176	356	114	123
Rainfall (cm)	0	1	8	19	27	15	9	5	18	36	11	12

Table 1

(for standard deviation)

SANGMELIMA – South Region, Cameroon

Mean monthly rainfall (in cm) = 13 cm

- (a) Choose suitable cartographic techniques and present the data graphically. (12 marks)
- (b) Comment on the advantages of the techniques used. (3 marks)
- (c) If the mean monthly rainfall (in cm) is 13 cm;
- (i) Find the standard deviation of the mean monthly rainfall (in cm) using the formula:
- $$\text{Standard deviation (r)} = \sqrt{\frac{\sum(x - \bar{x})^2}{N}}$$
- Where x = the monthly rainfall
 $\bar{x}$ = mean monthly rainfall
 N = number of months (12)
- (ii) The coefficient of variation (CV) = $\frac{100 \times \text{standard deviation}}{\text{mean rainfall}}$ (6 marks)
- (2 marks)

SECTION C

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10. “Demographic factors constitute the main reasons why age-sex pyramids vary in shape and size.” Discuss. (23 marks)
11. “The global population problem can be resolved mainly by improving agricultural productivity.” Discuss. (23 marks)
12. What characteristics would you consider when determining transport network efficiency? (23 marks)
13. Examine the concepts and mechanisms involved in the cumulative causation process. (23 marks)
14. Examine the various ways in which villages adapt themselves to their physical milieu. (23 marks)
15. (a) Explain the concept of “Settlement hierarchy” (11 marks)
- (b) Why do some settlements have more functions than their population while others have more population than their functions? (12 marks)



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