TEST CODE **01225020**

FORM TP 2014077

MAY/JUNE 2014

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

GEOGRAPHY

Paper 02 – General Proficiency

2 hours 30 minutes

30 MAY 2014 (a.m.)

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This paper consists of TEN questions in FOUR sections.
2. Section A consists of ONE compulsory question. Sections B, C and D consists of THREE questions EACH.
3. Candidates MUST answer FOUR questions: Question 1 from Section A and ONE question from EACH of Sections B, C and D.
4. Begin EACH answer on a new page.
5. Credit will be given for the use of relevant sketch maps and diagrams.
6. You may use a silent, non-programmable calculator to answer items.
7. You may use geometrical instruments.
8. Write all of your responses in the answer booklet provided unless otherwise stated in the question. ALL inserts used MUST be fastened securely to your answer booklet.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

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SECTION A (Map Work)

You MUST answer this question.

1. A map extract of Speightstown, Barbados (scale 1:10,000) **is provided as an insert**. Use it to answer the following questions.

(a) What is the length of the section of road under construction passing through Speightstown. **(2 marks)**

(b) What is the compass direction from Haymann's Factory (223820) to Rock Plantation (235830)? **(1 mark)**

(c) If you drew a sketch map of this area at half the scale, what would be the scale? **(1 mark)**

(d) (i) What man-made feature is found at 215823? **(1 mark)**

(ii) What is the feature at 224810? **(1 mark)**

(e) What is the gradient along Northing 81 from the 80 metre contour at 223810 to the coast at Mullins Bay? Show your working. **(3 marks)**

(f) Figure 1, **provided as an insert**, is a grid for use in this question.

Complete the cross section to show the relief from the coast to Haymann's Factory along Northing 82. Label the area with scrub vegetation. **(5 marks)**

(g) (i) List FOUR features of the drainage in the area south of Northing 82. **(4 marks)**

(ii) List FOUR features of the relief west of Easting 24. **(4 marks)**

(h) Explain the distribution of trees and cultivated areas. **(6 marks)**

Total 28 marks

SECTION B (Natural Systems)

Answer ONE question from this section.

2. (a) Draw a diagram to illustrate the following features at a convergent plate.

- Boundary
- Folds
- Volcano
- Subduction zone **(4 marks)**

(b) (i) Define the following terms:

- weathering
- mass wasting **(4 marks)**

(ii) Describe what happens when EITHER a landslide OR soil creep occurs. **(4 marks)**

(c) Using the theory of plate tectonics, explain how the following occur.

(i) Volcanoes **(6 marks)**

(ii) Earthquakes **(6 marks)**

Total 24 marks

3. Study the figure below and answer the questions that follow.

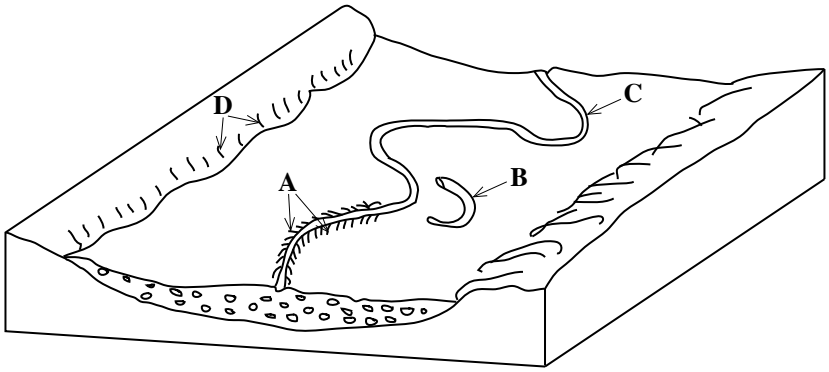


Figure 2.

(a) (i) Which section of a river does the diagram represent? **(1 mark)**

(ii) Name any THREE of the features labelled A, B, C and D. **(3 marks)**

(b) (i) Name TWO features produced by river erosion. **(2 marks)**

(ii) Outline TWO processes by which rivers erode their channels. **(6 marks)**

(c) Select ONE feature from EACH of the following lists of coastal features and explain how EACH may be formed.

(i)
- Cave

OR
- Wave-cut platform

OR
- Arch **(6 marks)**

(ii)
- Beach

OR
- Spit

OR
- Tombolo **(6 marks)**

Total 24 marks

4. (a) Figure 3, **provided as an insert**, is a world map. Shade and name ONE region of tropical rainforest and ONE region of tropical grassland. **(4 marks)**

(b) Describe the weather associated with any TWO Caribbean weather systems. **(8 marks)**

(c) Explain how FOUR characteristics of the vegetation of EITHER equatorial OR tropical continental regions have been influenced by the climate. **(12 marks)**

Total 24 marks

SECTION C (Human Systems)

Answer ONE question from this section.

5. Study Table 1 which shows urban primacy for selected Caribbean countries and answer the questions that follow.

TABLE 1: MEASURES OF URBAN PRIMACY IN THE CARIBBEAN, 1990

COUNTRY	PERCENTAGE OF TOTAL POPULATION LIVING IN PRIMATE CITY	PERCENTAGE OF URBAN POPULATION LIVING IN PRIMATE CITY
Cuba	20	28
St Kitts and Nevis	45	100
Saint Lucia	31	66
St Vincent and the Grenadines	21	100
Jamaica	38	77
Trinidad and Tobago	24	38

(a) (i) Name the country which has just over one quarter of its urban population living in the primate city. **(1 mark)**

(ii) Which country has nearly a quarter of its total population living in the primate city? **(1 mark)**

(iii) Name ONE country where all the urban population live in one city. **(1 mark)**

(iv) Which country has the smallest percentage of its total population living in the primate city? **(1 mark)**

(b) (i) State TWO ways by which the population of cities increase. **(2 marks)**

(ii) Describe THREE measures that can be used to reduce urbanization in the Caribbean. **(6 marks)**

(c) Explain FOUR reasons why many rural residents in the Caribbean prefer to live in cities. **(12 marks)**

Total 24 marks

6. Study the graph in Figure 4 below which shows the contribution of EACH sector to the Gross Domestic Product (GDP) and answer the questions that follow.

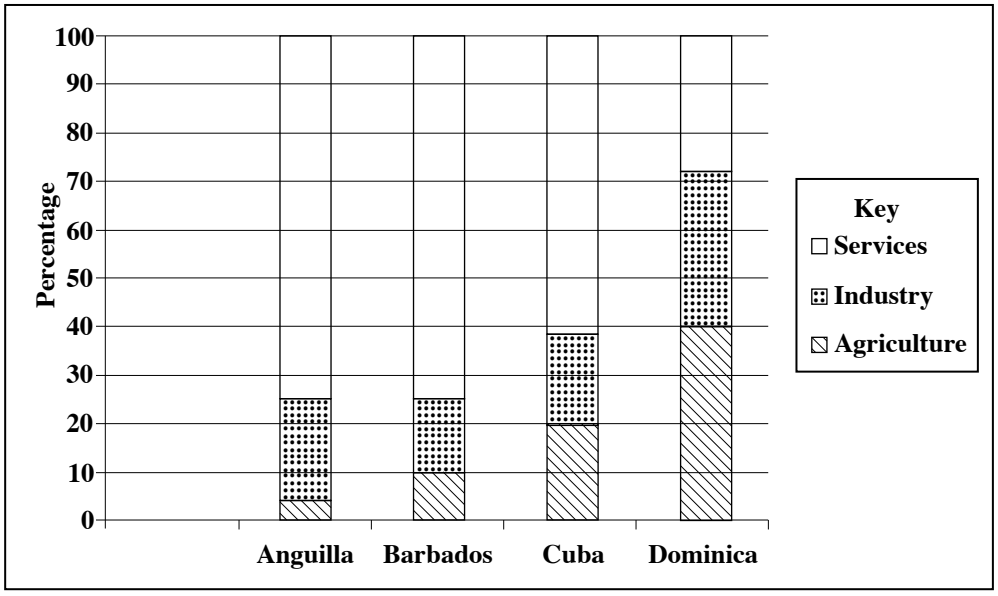


Figure 4. Percentage contribution of sectors to the GDP of selected countries

Source: Paul Guiness et al, Geography for CSEC, Nelson Thornes, 2008, Figure 12.3.

(a) (i) In which country does Industry contribute 15 per cent to Gross Domestic Product? **(1 mark)**

(ii) In which country does Industry contribute the largest percentage to Gross Domestic Product? **(1 mark)**

(iii) What is the **combined** contribution of Agriculture and Industry in Anguilla? **(1 mark)**

(iv) What is the contribution of Services in Cuba? **(1 mark)**

(b) (i) Define the term 'tertiary activity'. **(2 marks)**

(ii) Describe THREE benefits of the tourist industry to the Caribbean. **(6 marks)**

(c) (i) Explain TWO reasons that EITHER mining OR forestry OR fishing, is important to the economic development of a **named** Caribbean country. **(6 marks)**

(ii) Explain TWO challenges faced by EITHER the garment industry OR the food processing industry in the Caribbean. **(6 marks)**

Total 24 marks

7. Table 2 shows the main Caribbean sugar producers for 1991 and 2001. Study Table 2 and answer the questions that follow.

TABLE 2: THE MAIN CARIBBEAN SUGAR PRODUCERS, 1991 AND 2001 ('000 TONNES)

COUNTRY	PRODUCTION 1991	PRODUCTION 2001
Barbados	65 763	45 000
Belize	113 188	102 744
Cuba	7 623 000	4 100 000
Guyana	159 985	305 000
Jamaica	228 000	203 000
Trinidad and Tobago	104 976	114 311

Source: John Niles, Modern Caribbean Geography, Macmillan Caribbean, 2005, Table 8.1.

(a) (i) Which country experienced the biggest decline in sugar production? **(1 mark)**

(ii) What was the actual decline in sugar production for Jamaica? **(1 mark)**

(iii) What was the percentage change in production for Guyana? **(2 marks)**

(b) (i) What is peasant farming? **(2 marks)**

(ii) List TWO ways by which peasant farmers market their produce. **(2 marks)**

(iii) Describe TWO characteristics of large-scale arable farming in the Caribbean. **(4 marks)**

(c) Compare commercial arable farming in the Caribbean with commercial arable farming in the Canadian Prairies. Use the following headings:

- Mechanization
- Challenges
- Diversification **(12 marks)**

Total 24 marks

SECTION D (Human Environment Systems)

Answer ONE question from this section.

8. (a) Draw a sketch map of a Caribbean country. On the map, shade and name an area, town OR village which has suffered serious damage by ONE of the following events:

- Hurricane OR
- Earthquake OR
- Volcanic eruption **(4 marks)**

(b) Describe FOUR impacts of any ONE of the following events on a **named** Caribbean country:

- Hurricane OR
- Volcanic eruption OR
- Earthquake **(8 marks)**

(c) (i) Explain how the implementation of any TWO measures can reduce the degradation of coral reefs in the Caribbean. **(6 marks)**

(ii) Explain how any TWO measures can reduce the emission of greenhouse gases. **(6 marks)**

Total 24 marks

9. Study Figure 6 below which shows forest cover in the Caribbean and answer the questions that follow.

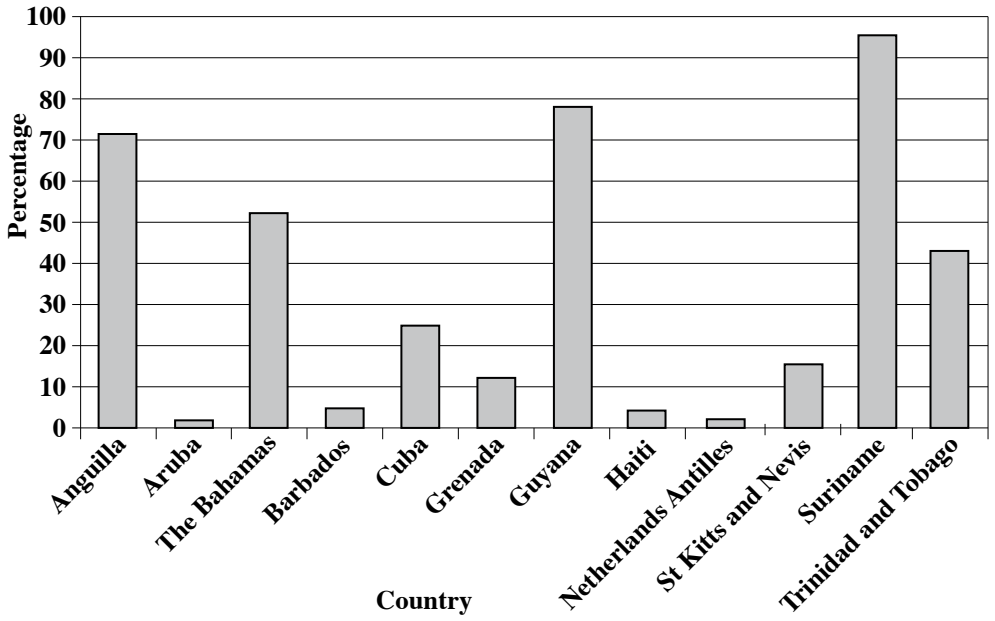


Figure 6. Percentage of forest cover in the Caribbean

Source: Paul Guiness et al, Geography for CSEC, Nelson Thornes, 2008, Figure 14.24.

(a) (i) Name ONE country which has over 70% forest cover. **(1 mark)**

(ii) Which country has 25% forest cover? **(1 mark)**

(iii) Name ONE country which has less than 10% forest cover. **(1 mark)**

(iv) What is the percentage forest cover of St Kitts and Nevis? **(1 mark)**

(b) (i) Define the following:

- air pollution
- water pollution **(4 marks)**

(ii) Explain TWO ways by which tourism development can contribute to coral destruction in the Caribbean. **(4 marks)**

(c) (i) Outline TWO consequences of deforestation in the Caribbean. **(6 marks)**

(ii) Outline TWO possible consequences of global warming for the Caribbean. **(6 marks)**

Total 24 marks

10. (a) Draw a sketch map of a Caribbean territory (including Guyana and Suriname) to show an area where EITHER land OR water OR air pollution is present. State the type of pollution you choose. **(4 marks)**

(b) (i) List TWO sources of greenhouse gases. **(2 marks)**

(ii) State TWO causes of marine pollution in the Caribbean. **(2 marks)**

(iii) Describe TWO measures that can be used to reduce water pollution along the coast. **(4 marks)**

(c) Explain how FOUR of the measures used by a national disaster prevention organization reduce and/or alleviate the effects of hurricanes OR earthquakes OR volcanic eruptions. **(12 marks)**

Total 24 marks

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.

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Insert for Question 1 (f)

Centre Number _____

Candidate's Number _____

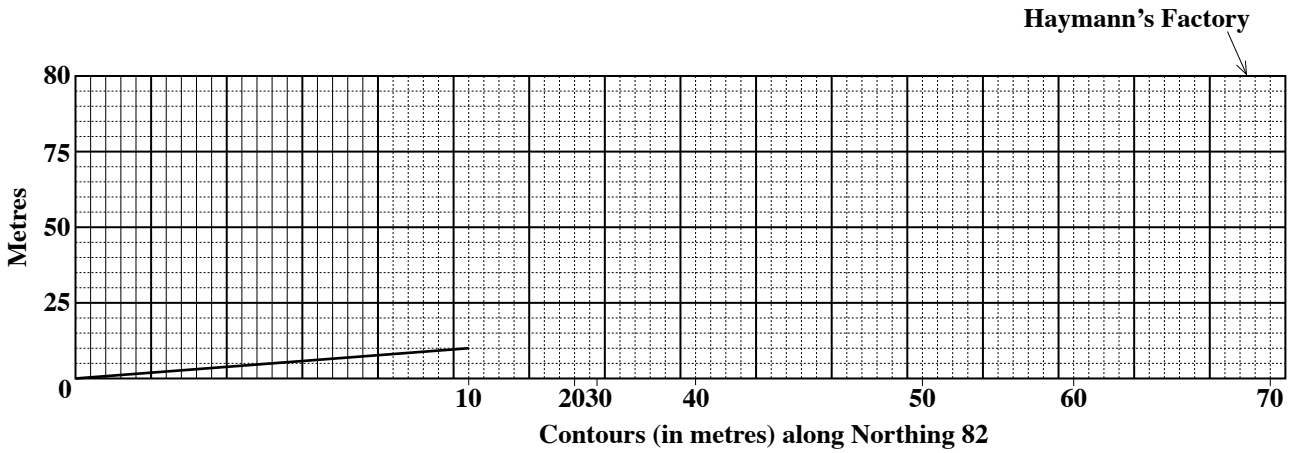


Figure 1.

Title: _____

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Insert for Question 4 (a)

Centre Number _____

Candidate's Number _____

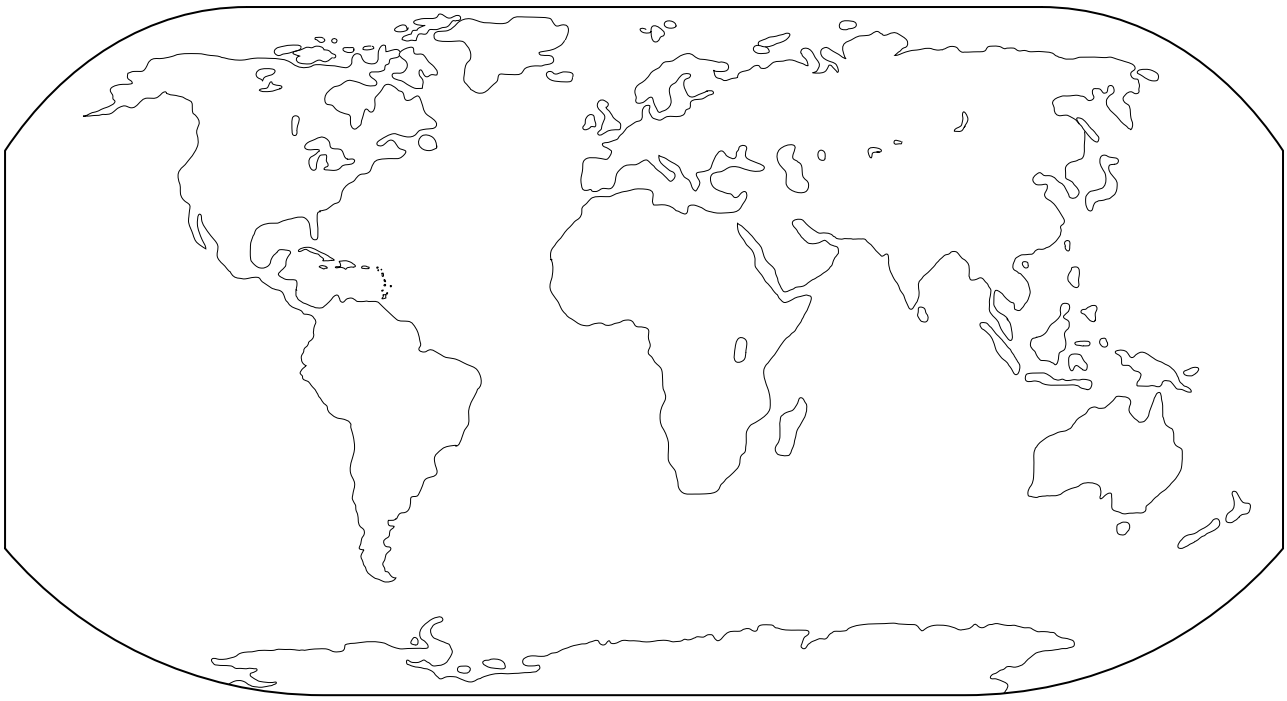


Figure 3. Map of the world

TO BE ATTACHED TO YOUR ANSWER BOOKLET

1:10,000
BARBADOS
Sheet 3

Grid North
True North
Magnetic North
13°28'
13°27'
1'
At Sheet Centre
Magnetic Variation as at January 1985
Annual Change 7' West

SHEET HISTORY

Edition 1 prepared by the Overseas Surveys Directorate,Ordnance Survey, under the U.K.Government's Technical Cooperation Programme.
Air photography by Foto Flight Surveys Ltd., March 1982.
Control taken from the results of aerotriangulation, by Western Photogrammetry, for 1:2500 and 1:5000 mapping, 1983.
Office edited by Lands and Surveys Department, September 1985.
Additional information taken from D.O.S. 018 1:2500 photogrammetric plots, Ed. 1, 1976-1980, and Barbados 1:5000 sheets, prepared for Lands and Surveys Dept. by Western Photogrammetry, Ed.1, 1983.

CONVERSION TABLE

Metres	Feet
300	1000
250	800
200	700
150	600
100	500
50	400
0	300
	200
	100
	0

Copies of this map can be obtained from Lands and Surveys Department, Culloden Road, St Michael, Bridgetown, Barbados and from the Ordnance Survey, Romsey Road, Southampton, England, SO9 4DH. Price Code 2.

IN AREAS OF HIGH VEGETATION THE ACCURACY OF CONTOURS RELATIVE TO THE UNDERLYING GROUND SURFACE CANNOT BE GUARANTEED

UNDERWATER FEATURES SHOULD NOT BE RELIED ON FOR THE PURPOSE OF NAVIGATION

Users noting additions or corrections are asked to mark them on the map and send it to the Chief Surveyor, Lands and Surveys Department, Bridgetown, Barbados, or to the Director General, Ordnance Survey, Romsey Road, Southampton, England SO9 4DH. The map will be replaced

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Scale 1:10,000

Metres 500 400 300 200 100 0 — ½ — 1 — 1½ — 2 Kilometres
Feet 1500 1000 500 0 — ¼ — ½ — ¾ — 1 Mile

HEIGHTS IN METRES

ABBREVIATIONS

Cemetery Cemy	Hospital Hosp	Post Office PO	
Chapel Cha	Market Mkt	School Sch	
Chimney Chy	Police Post PP	Swimming Pool SwP	
Church Ch	Police Station PS	Tennis Court TC	
	Windpump WP		