FORM TP 2022078

TEST CODE 01225020

MAY/JUNE 2022

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

GEOGRAPHY

Paper 02 – General Proficiency

2 hours 30 minutes

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This paper consists of FOUR questions. Answer ALL questions.
2. Write your answers in the spaces provided in this booklet.
3. Do NOT write in the margins.
4. Credit will be given for the use of relevant sketch maps and diagrams.
5. You may use a silent, non-programmable calculator to answer questions.
6. You may use geometrical instruments.
7. If you need to rewrite any answer and there is not enough space to do so on the original page, you must use the extra lined page(s) provided at the back of this booklet. **Remember to draw a line through your original answer.**
8. **If you use the extra page(s) you MUST write the question number clearly in the box provided at the top of the extra page(s) and, where relevant, include the question part beside the answer.**

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

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Answer ALL questions.

1. Study the map extract of Pointe-a-Pierre, Trinidad, drawn on a scale of 1:25 000 (**provided as an insert**) and answer the following questions.

(a) (i) State the six-figure grid reference of the police station near Union Estate.

.....

(2 marks)

(ii) What is the compass direction of the school near Union Estate (grid square 6843) from Trig Station 1047 (grid square 7043)?

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(1 mark)

(b) State TWO types of vegetation found along the coastline near Marabella.

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(2 marks)

(c) Measure the bearing of Trig Station 1045 (grid square 7344) from Trig Station 1047 (grid square 7043).

Grid bearing .....

(2 marks)

(d) Measure the distance along the Solomon Hochoy Highway from its junction with Guaracara-Tabaquite Road (grid square 7139) to the point where the highway ends at the southern edge of the map.

Distance .....

(2 marks)

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0 1 2 2 5 0 2 0 0 4

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(e) Which of the following terms **best describes** the pattern of settlement found at the following locations on the map extract?

Nucleated, Linear, Dispersed

St Margaret .....

Marabella .....

La Carriere .....

(3 marks)

(f) List THREE physical features of the site of the oil refinery shown on the map. (Examine the area between Eastings 66 and 71, and Northings 39 and 42).

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(3 marks)

(g) Describe TWO features of the drainage east of the Solomon Hochoy Highway on the map extract.

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(4 marks)

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(h) Outline THREE ways in which the relief of the land has influenced the land use seen on the map.

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(6 marks)

Total 25 marks

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2. (a) Study Figure 1 below which shows features along a coastline and then answer the questions that follow.

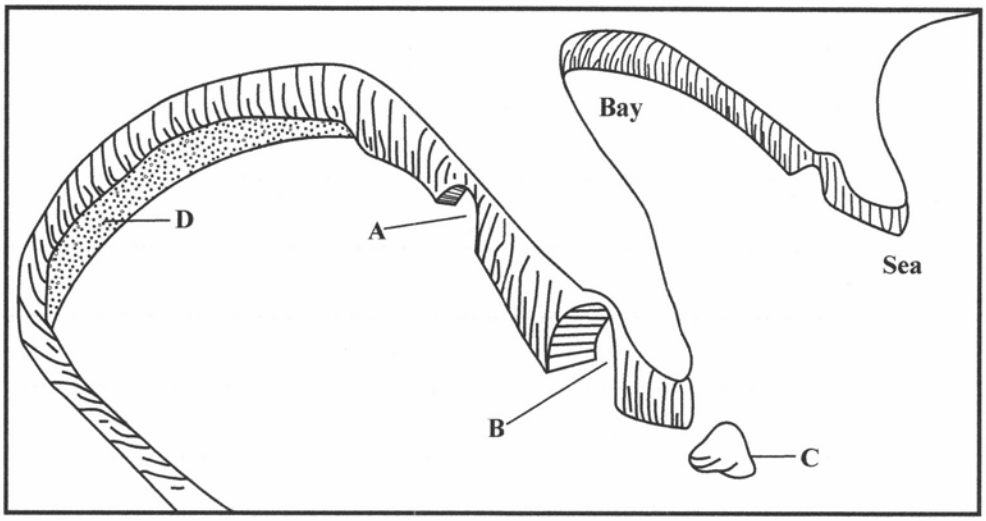


Figure 1. Features of a coastline

(i) State the type of landform found at

A .....

B .....

C .....

D. .....

(4 marks)

(ii) State the MAIN landform that separates the bays.

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(1 mark)

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(b) (i) Outline the difference between 'weathering' and 'erosion'.

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(4 marks)

(ii) Describe TWO processes by which wave action erodes a coastline.

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(4 marks)

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(c) Explain how EACH of the following types of weathering takes place.

Frost action or freeze/thaw

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(3 marks)

Hydrolysis

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(3 marks)

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(d) Explain how rock hardness and wave refraction result in the formation of bays and headlands.

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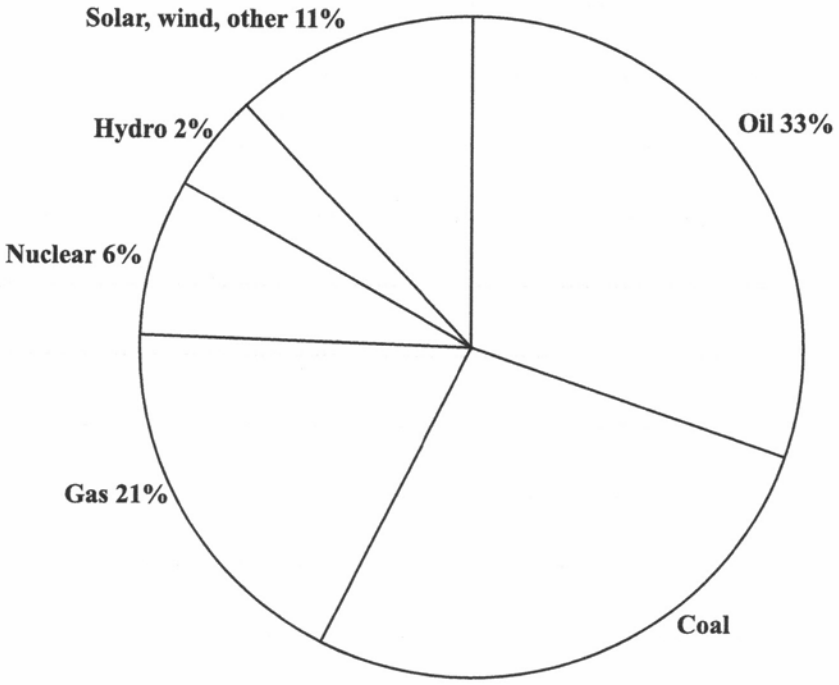
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(6 marks)

Total 25 marks

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3. (a) Study Figure 2 below which shows sources of the world's energy and then answer the questions that follow.



Source: Alley, R. B. et al. Global Energy Sources. Retrieved from https://www.e-education.psu.edu/earth104/node/1345

Figure 2. Sources of global energy

(i) What percentage of global energy comes from hydro?

.....

(1 mark)

(ii) State the source that is the GREATEST contributor to world energy.

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(1 mark)

(iii) Name the energy source that accounts for six per cent of global energy.

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(1 mark)

(iv) Calculate the percentage of world energy that comes from coal. **Show your working.**

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(2 marks)

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(b) (i) Differentiate between 'primary' and 'tertiary' economic activities.

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(4 marks)

(ii) Name any TWO extractive industries found in the Caribbean.

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(2 marks)

(iii) For each extractive industry named in (b) (ii), state ONE country in the region where the industry currently exists on a large scale.

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(2 marks)

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(c) Explain TWO benefits that are derived from the development of the manufacturing sector in Caribbean countries.

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(6 marks)

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(d) Explain how any TWO challenges have prevented the setting up of EITHER aluminium smelters OR oil drilling in the Caribbean region.

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(6 marks)

Total 25 marks

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4. Study the table below which shows information about coral reefs in the Caribbean and then answer the questions that follow.

TABLE 1: CORAL REEFS IN THE CARIBBEAN

Country	Reef Area (km^2)	Reef at High Risk of Destruction/ Degradation (%)
Antigua and Barbuda	180	51
The Bahamas	3 580	2
Barbados	90	86
Belize	1 420	32
Cuba	3 290	33

Source: Burke, L and J. Maidens. Reefs at Risk in the Caribbean, Washington, D.C.: World Resources Institute, 2004, Retrieved from http://pdf.wri.org/reefs_caribbean_full.pdf

(a) (i) Which country has the largest area of coral reefs?

.....

(1 mark)

(ii) State the area of the coral reefs in Belize.

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(1 mark)

(iii) Which country has the highest percentage of its reefs at high risk of destruction/ degradation?

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(1 mark)

(iv) Which country has approximately half of its reefs at high risk of destruction/ degradation?

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(1 mark)

(v) State the country that has been most successful in limiting the effects of human activity on its coral reefs.

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(1 mark)

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(b) (i) Describe TWO conditions that are necessary for the successful formation of coral reefs in the Caribbean.

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(4 marks)

(ii) Outline TWO ways in which mangrove wetlands are important to coastal communities in the Caribbean.

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(4 marks)

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(c) "The cruise ship industry is one of the most important growth sectors for tourism in the Caribbean."

Discuss TWO possible negative effects the cruise ship industry can have on the natural environment.

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(6 marks)

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(d) Discuss TWO measures that have been implemented by governments in the Caribbean to ensure the sustainable management of fisheries resources.

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(6 marks)

Total 25 marks

END OF TEST

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

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TRINIDAD

POINTE-A-PIERRE

61°25′

66 67 68 69 670000mE 71 72 73 74

44 43 10°20′N 42 41 1140000mN 39 38

St Margaree
UNION ESTATE
Plaisance Park
PLAISANCE ESTATE
BON ACCORD ESTATE
LA CARRIERE
Pointe-a-Pierre
Oil Refinery
Golf Course
Gasparillo
PO Pol S
Bonne Aventure
Marabella
Marabella Junction
Union
UNION PARK Race Course & Tracks
Reform
Reform Stag
Sugar Factory
Mount Stewart
Tarouba Hill
TAROUBA BAY
Guaracara Park
Power Station
Drive in Cinema
Towers
Reservoir Plant
Pump House
Dam
Quarry
Hosp
Geological Laboratory
Fire Department
Wharf
Pipeline
Line of Disused Railway
Sea Wall
Marabella River
Victoria River
Guaracara River
SOUTHERN MAIN ROAD
SOLOMON HOCHOY HIGHWAY
GUARACHE-TABAQUITE ROAD
LIGNE Railway

CONVERSION TABLE

Metres	Feet
1000	3250
950	3000
900	2750
850	2500
800	2250
750	2000
700	1750
650	1500
600	1250
550	1000
500	750
450	500
400	250
350	0
300	
250	
200	
150	
100	
50	
0	

Grid North
True North
Magnetic North
10°29′
16′15″

At Sheet Centre
Magnetic Variation as at January 1975
Annual Change : 6′ West

D.O.S. 2896

Reproduced from Trinidad 1:25,000 D.O.S. 316/1 Sheet 53 Ed. 1
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61°25′ West of Greenwich
Printed for the Directorate of Overseas Surveys
by the Ordnance Survey, 1979

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Each box should contain a colour; if any are white the map is incomplete and should be returned to the invigilator

SCALE 1:25,000

Mile 1 ¾ ½ ¼ 0 1 2 3 Miles
Feet 3000 0 3000 6000 9000 12000 15000 Feet
Metres 1000 500 0 1 2 3 4 Kilometres

265/1/CARIB/S/79

Boundary-County
" -Ward
" -Forest
Railway -(Disused)
Road -1st Class
" -2nd Class
" -3rd Class & Town Roads
" -4th Class
Footpath
Building -Public, Other
Areas of small or temporary buildings

Power Transmission Line
Trigonometrical Station - Main, Minor
Height in feet given to ground level
Contours (V.I. 50 feet with 25 feet interpolation)
Contour showing depression
Public Works Department, PWD
Church, Chapel, School Ch Cha Sch
Mosque, Temple, Rest House Mos Tem RHo
Police Station, Post Office Pol S PO
Health Office, Hospital HO Hosp
Market, Antiquity Mkt Fort

Warden's Office WO
Community Centre, Sports Ground C Cen SpGd
Cemetery
Mud Volcano
Derrick, Windmill, Windpump D WMl WPp
Borehole, Spring, Well BH Spr We
Reservoir Resr
Swamp Forest
Mangrove
Swamp
Rice

Forest
Scrub
Savannah
Forest Plantation
Coconut (Isolated symbol represents palm tree)
Citrus
Sugar Cane
Vegetable Garden
Other Cultivation & Plantation
Line of Trees, Positioned Tree
Shade Trees with other Classes

