TEST CODE **01225020**

FORM TP 2023082

MAY/JUNE 2023

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.

Copyright © 2022 Caribbean Examinations Council
All rights reserved.

0 1 2 2 5 0 2 0 0 3

Answer ALL questions.

1. Study the map extract of a section of Montego Bay, Jamaica, drawn to a scale of 1:50 000 (**provided as an insert**), and answer the following questions.

710

(a) Identify the crop which is produced in grid square 4400.

.....

(1 mark)

(b) State the six figure grid reference of the trigonometrical station at Cacoon Castle.

.....

(2 marks)

(c) What is the direction of the hospital at Fairfield Estate (5300) from the hospital in Montego Bay (5302)?

.....

(1 mark)

(d) Measure the grid bearing of the post office at Montpelier (5191) from the church at Copse (4792).

.....

(2 marks)

0005

(e) Measure the distance along the railway line from the point where the railway crosses the road at Gordons Crossing (529988) to the point where it ends in Montego Bay, to the nearest 100 metres.

.....

(2 marks)

(f) If the height of the post office in grid square 4397 is 100 metres, calculate the gradient of the slope from the trigonometrical station at Cacoon Castle in grid square 4296.

710

(4 marks)

(g) State FOUR features of the drainage of the area shown in the map extract.

.....

.....

.....

.....

.....

.....

.....

.....

0005

(4 marks)

(h) State THREE characteristics of the road network shown in the map extract.

.....

.....

.....

.....

.....

.....

(3 marks)

(i) Suggest THREE reasons, **supported by evidence from the map**, for the distribution of settlements in the area.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

Total 25 marks

2. Figure 1 shows a map of the Caribbean and the North Atlantic Ocean. Study the map and answer the questions that follow.

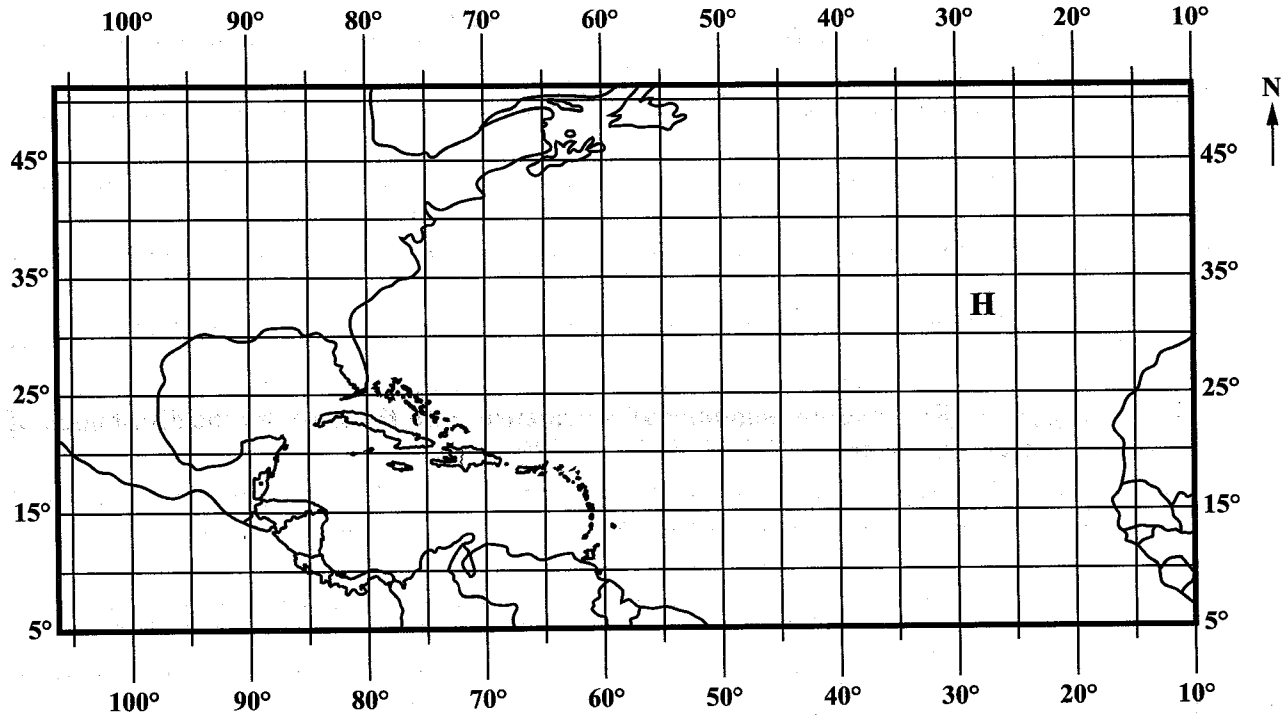


Figure 1. Map of the Caribbean and North Atlantic

Adapted from https://www.nhc.noaa.gov/tracking_charts.shtml. Retrieved 8 May 2018.

(a) On the map above,

(i) insert TWO labelled isobars around H to indicate that it is a high pressure system **(2 marks)**

(ii) draw the weather symbol for a cold front over the northern region of the Caribbean **(1 mark)**

(iii) using an arrow, draw the typical path of a hurricane in the Caribbean region, as it moves across the Atlantic Ocean **(1 mark)**

(iv) shade the region where tropical waves usually form. **(1 mark)**

GO ON TO THE NEXT PAGE

(b) A hurricane warning is issued to the public by the meteorological office.

(i) State TWO reasons why a hurricane warning is normally issued.

.....

.....

.....

.....

.....

.....

(2 marks)

(ii) Briefly describe TWO weather conditions associated with the passage of a hurricane at **each** of the following stages.

Before .....

.....

.....

.....

During .....

.....

.....

.....

After .....

.....

.....

.....

(6 marks)

(c) Figure 2 shows a drawing of a tropical island. Study the drawing and answer the questions that follow.

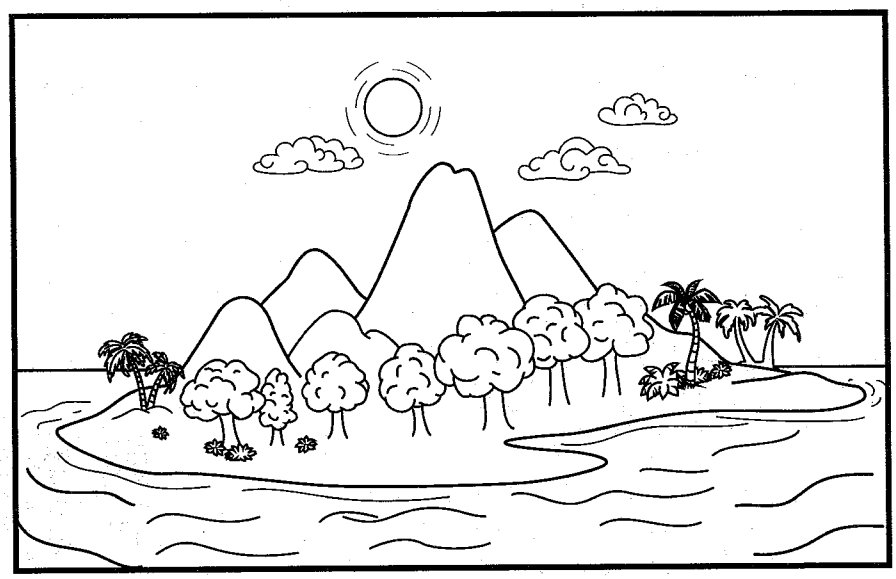


Figure 2. Drawing of a tropical island

Explain how TWO of the following factors might directly influence the weather and climate on the tropical island.

- Altitude (height above sea level)
- Latitude (distance from the equator)
- Distance from the sea

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

GO ON TO THE NEXT PAGE

(d) Disasters resulting from Category 5 hurricanes in the Caribbean affect several areas of development. Explain ONE possible long-term effect of such disasters on EACH of the following areas of development in the Caribbean.

Infrastructure .....

.....

.....

.....

.....

.....

.....

Economy.....

.....

.....

.....

.....

.....

.....

Environment .....

.....

.....

.....

.....

.....

.....

Social .....

.....

.....

.....

.....

.....

.....

(8 marks)

Total 25 marks

3. (a) Table 1 shows the birth rate per 1000 of the population of Country Z between the years 1990 and 2015. Study the table and answer the questions that follow.

TABLE 1: COUNTRY Z — BIRTH RATE PER 1000 OF THE POPULATION, 1990–2015

Year	Birth Rate Per 1000
1990	19.6
1995	15.3
2000	14.3
2005	13.3
2010	14.5
2015	14.0

(i) Using the data in Table 1, draw a line graph on the grid provided **on page 13** to illustrate the birth rate of Country Z. Label the vertical axis. **(4 marks)**

(ii) Write ONE statement about the population of Country Z for the period.

.....

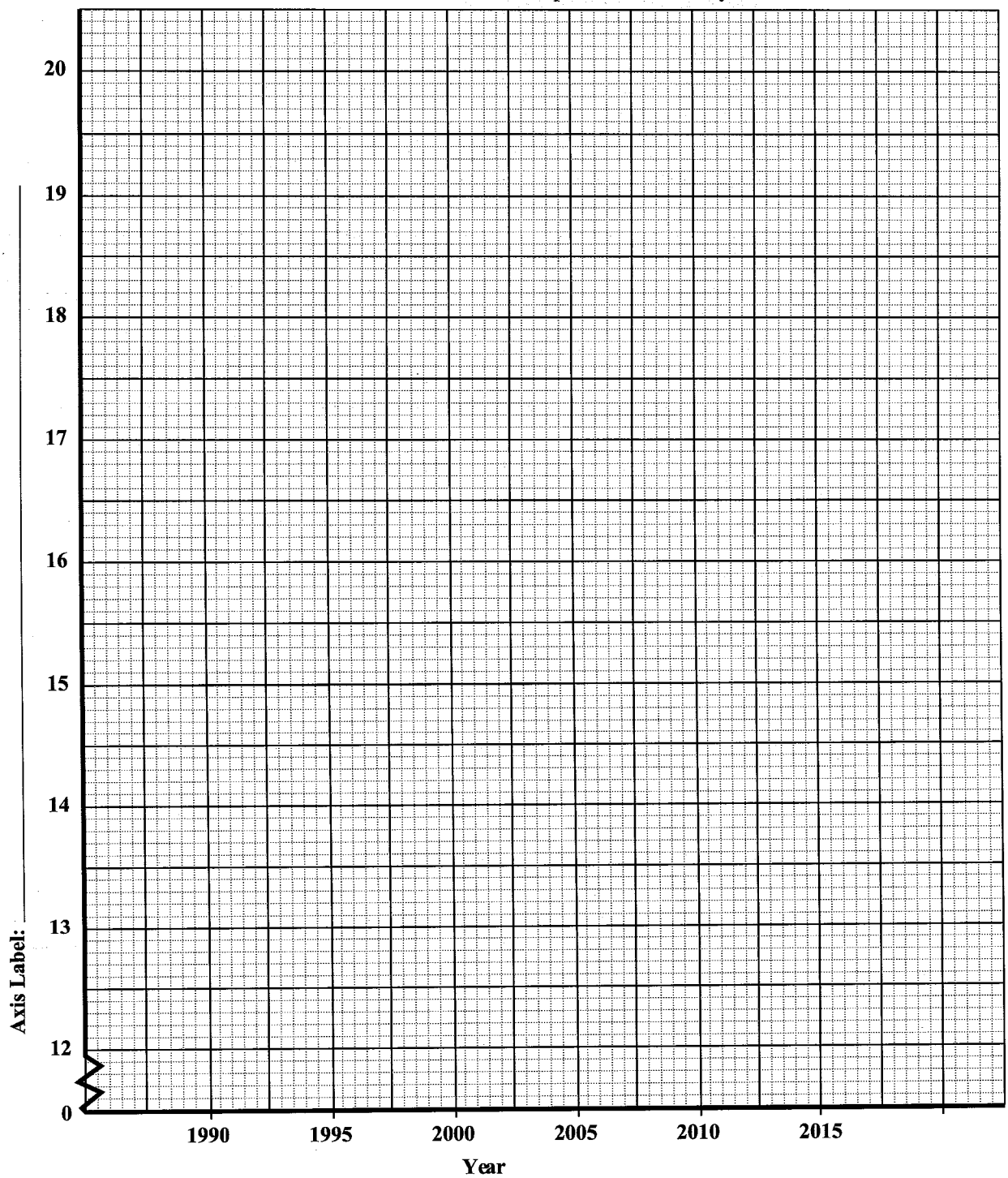
.....

.....

.....

(1 mark)

Birth Rate Per 1000 of Population – Country Z



(b) (i) Outline how TWO of the following factors influence the distribution and density of the population in the Caribbean.

- Physical
- Historical
- Socioeconomic

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

(ii) Table 2 shows the birth rates of Barbados and Nigeria for the period 2019–2021. Study the table and answer the questions that follow.

TABLE 2: POPULATION TRENDS OF BARBADOS AND NIGERIA, 2019–2021

	Birth Rates Per 100 People		
	2019	**2020**	**2021**
Barbados	10.7	10.6	10.6
Nigeria	37.7	37.3	36.9

Source: https://www.macrotrends.net/countries/BRB/barbados/birth-rate
https://www.macrotrends.net/countries/NGA/nigeria/birth-rate

Outline TWO possible reasons for the differences in birth rates between Barbados and Nigeria.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

GO ON TO THE NEXT PAGE



(c) Explain the TWO causes of population growth in urban areas of the Caribbean.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

(d) Explain TWO measures that have been used in the Caribbean to control the rate of urbanization.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

Total 25 marks

GO ON TO THE NEXT PAGE

4. (a) Table 3 shows the distribution of agricultural land in particular counties in Trinidad and Tobago in 2004. Study the table and answer the questions that follow.

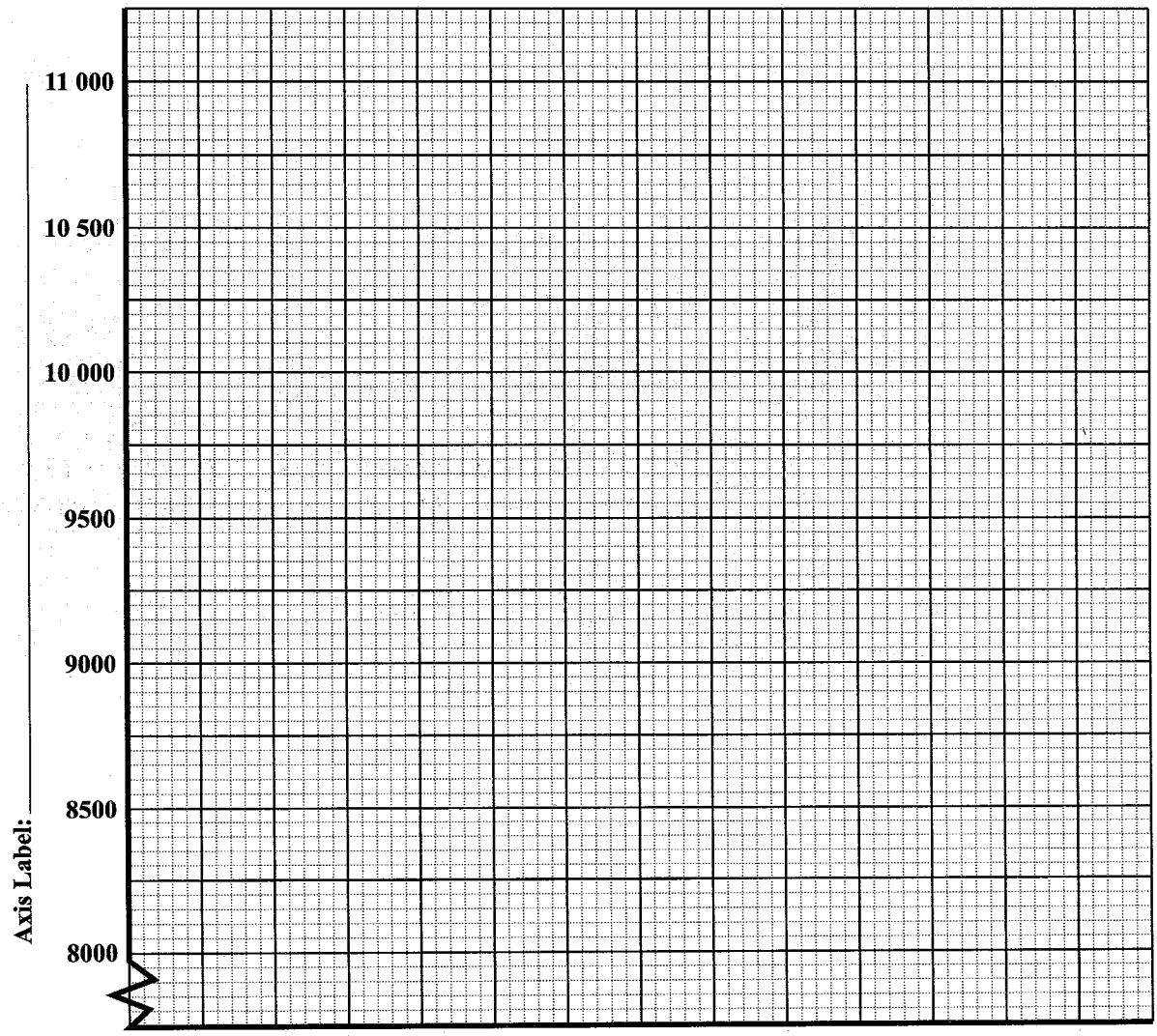
TABLE 3: DISTRIBUTION OF AGRICULTURAL LAND

County	Area (hectares)
St George	10 500
Victoria	10 100
St Patrick	8 700
St Andrew/St Davis	9 600

Adapted from 2004 Agricultural Census for Trinidad and Tobago. Retrieved from: https://cso.gov.tt/agriculture-census-2004/

Using the data in Table 3, complete the bar chart **on page 19** to show the area of agricultural land for each county. Label the vertical axis. **(5 marks)**

Distribution of Agricultural Land for Counties in Trinidad and Tobago



County

(b) Figure 3 shows a picture of a type of farming found in the Caribbean. Study the picture and answer the questions that follow.



Figure 3. Type of farming found in the Caribbean

Source: https://environmentallyinclined.weebly.com/environmentally-aware/types-of-agricultural-systems-in-the-caribbean

(i) State the type of farming shown in Figure 3.

.....

(1 mark)

(ii) List THREE features of the type of farming shown in Figure 3.

.....

.....

.....

.....

.....

(3 marks)

GO ON TO THE NEXT PAGE

(c) With reference to farming, define EACH of the following terms.

(i) Agribusiness

.....

.....

.....

.....

.....

.....

.....

(2 marks)

(ii) Sustainable management

.....

.....

.....

.....

.....

.....

.....

(2 marks)

(d) Explain the benefits of TWO sustainable farming practices implemented by farmers in the Caribbean.

(6 marks)

(e) Discuss TWO **negative** impacts that human activities have on the tropical rainforests in a named CARICOM country.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

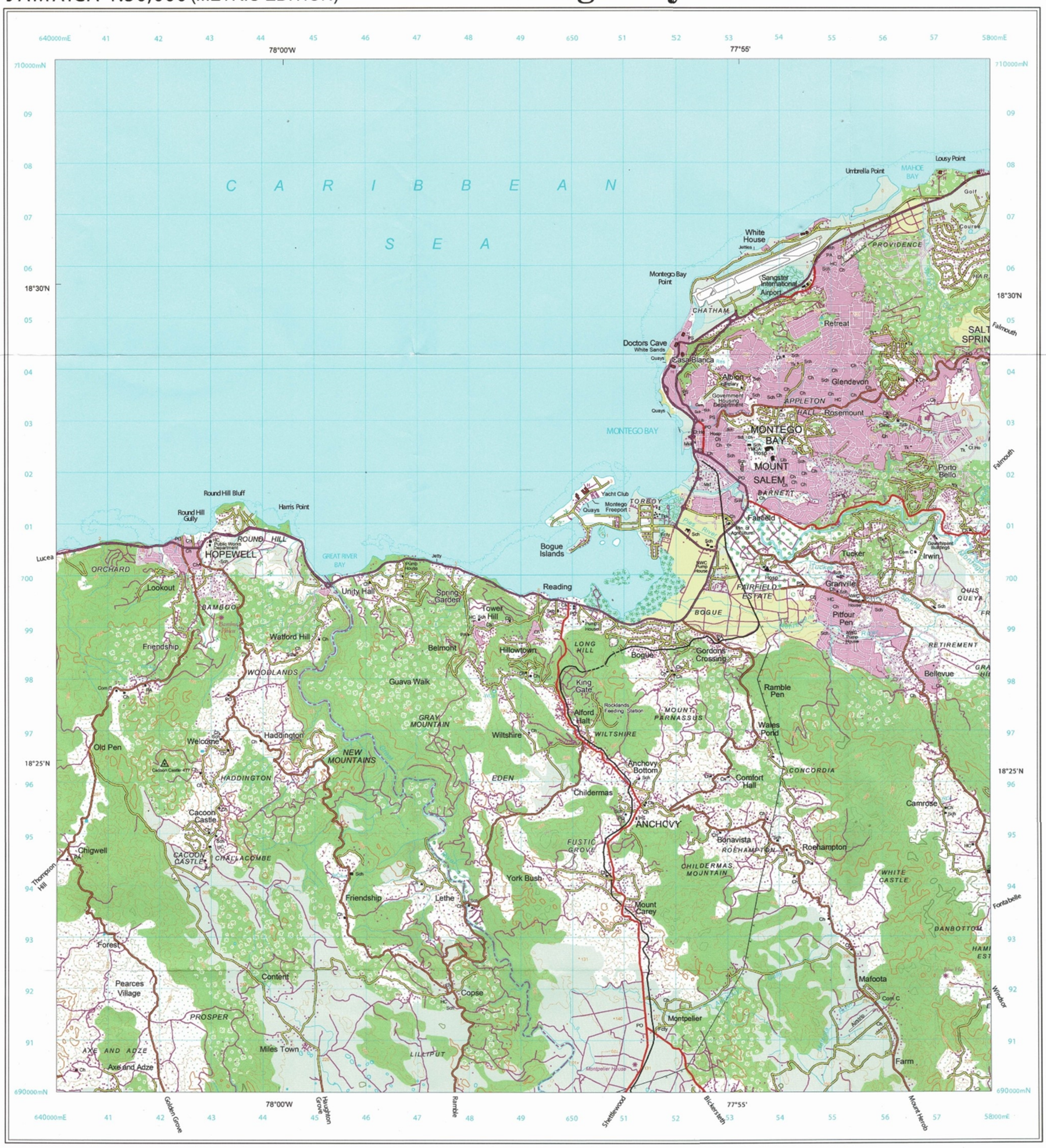
Total 25 marks

END OF TEST

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

JAMAICA 1:50,000 (METRIC EDITION)

Montego Bay



LEGEND

- Toll Road
- Road - Class A, Dual Carriageway
- Bridge — Road - Class B
- Road - Class C
- Road - Other
- Motorable Track or Footpath
- Built- up Area
- H — Named Building, Hotel, Other Building
- Station, Halt, Cutting, LC — Railway
- Embankment — Light Railway or Siding
- Railway tunnel
- Power Transmission Line
- Boundary - County
- Boundary - Parish
- Boundary - Forest Reserve
- Trigonometrical Station
- 296 — Photogrammetric Spot Height
- Contours 20m V.I up to 80m and 40m V.I. thereafter
- Depression
- Woodland
- Trees and Scrub
- Forest Plantation
- Sugar Cane Plantation
- Banana Plantation
- Citrus Plantation
- Coconut Plantation
- Tobacco Plantation
- Mixed or scattered Cultivation
- Pasture
- Watercourse, Waterfall, Rapids, Dam
- Alignment uncertain
- Pond, Lake
- R — Water Tank, Borehole
- Well, Spring
- Rice
- Mangrove
- Marsh or Swamp
- Coral
- Sand or Gravel
- $ — Lighthouse, Chimney
- k — Point of Interest
- Transmitter
- Games Field/ Playground
- Flat Rock
- Cliff, Quarry

The delineation of boundaries must not be considered authoritative.

The representation on this map of a road, track or footpath is no evidence of a right of way

The accuracy of contours cannot be guaranteed in areas of high vegetation

Under water features should not be relied on for the purposes of navigation

SCALE 1: 50,000

METRES 1000 500 0 1 2 3 4 5 6 7 8 9 10 KILOMETRES

YARDS 1000 500 0 ¼ ½ ¾ 1 2 3 4 5 6 MILES

HEIGHTS IN METRES

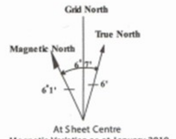
Published by the National Land Agency, Jamaica Government.

@ JAMAICA GOVERNMENT 2010
Reproduction prohibited unless authorized by the CEO of the National Land Agency

THIS SERIES WAS PREPARED BY THE GOVERNMENT OF JAMAICA (NATIONAL LAND AGENCY).

SHEET HISTORY

This edition has been prepared by the Surveys and Mapping Division of the National Land Agency, 23 ½ Charles Street Kingston Jamaica W.I. Compiled in 2010 from imagery captured by Space Imaging 2001 and Digital Globe in 2007. Field work completion done in 2010 by the Surveys and Mapping Division.Primary updated feature for this revised edition is the road network.



ABBREVIATIONS

Cem	Cemetery
Ch	Church
Com C	Community Centre
Ct Ho	Court House
Dis	Distillery
Fcty	Factory
FS	Fire Station
F	Ford
HC	Health Centre
Hosp	Hospital
HEP	Hydro Electric Plant
LC	Level Crossing
Lib	Library
Mkt	Market
NT	National Trust Commission M
PS	Police Station
PO	Post Office
PA	Postal Agency
Pwr S	Power Station
Res	Reservoir
Rn	Ruin
Sch	School
Tk	Tank
TEx	Telephone Exchange
UC	Under Construction
WCa	Water Catchment

onument