TEST CODE **01225020**

FORM TP 2021078

MAY/JUNE 2021

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 © 2020 Caribbean Examinations Council
All rights reserved.

"*"Barcode Area"*"
Sequential Bar Code

Answer ALL questions.

1. A map extract of a part of Basseterre, St Christopher, (scale 1: 25 000) is **provided as an insert**. Use the map to answer the following questions.

(a) What is the height of the trigonometrical station in grid square 1915?

.....

(1 mark)

(b) Measure the grid bearing of the roundabout (2611) from the power station at Taylor's (2414).

Grid bearing .....

(2 marks)

(c) Measure the distance along the class A road from the edge of the map at Easting 19 to the point where it crosses the Gillews Gut river. **Give your answer to the nearest 100 metres**.

Distance .....

(2 marks)

(d) Study the contours in the grid squares given in the table below. Complete the table by using one of the following words to describe the slope of the land in each grid square.

- Gentle
- Moderate
- Steep

Grid Square	Description of Slope
1915	
2013	
2112	

(3 marks)

GO ON TO THE NEXT PAGE

"*"Barcode Area"*"
Sequential Bar Code

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

(e) Figure 1 is a grid of the section of the map of Basseterre between Eastings 19 and 22, and Northings 11 and 14. The grid is on the same scale as the map. One contour line and the coastline are inserted.

On the grid,

(i) add an appropriate contour line and shade the area above 1000 ft

(ii) insert an area of cliffs

(iii) draw in the course of the Frontier Gut river.

Complete the key provided.

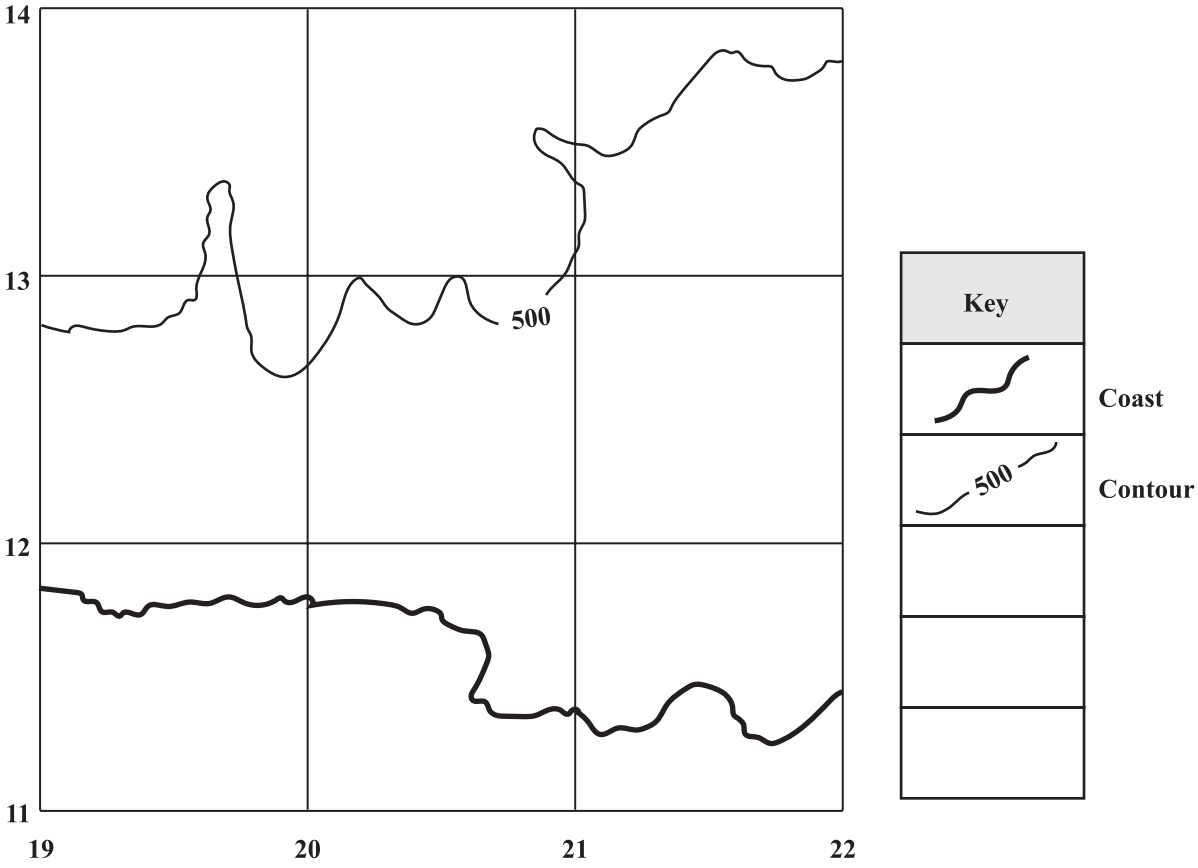


Figure 1. Section of the map of Basseterre

(4 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

"*"Barcode Area"*"
Sequential Bar Code

(f) State THREE features of the site of the town of Basseterre.

1. .....

.....

.....

2. .....

.....

.....

3. .....

.....

.....

(3 marks)

(g) Describe TWO features of the drainage of the map extract.

1. .....

.....

.....

.....

.....

.....

2. .....

.....

.....

.....

.....

.....

(4 marks)

GO ON TO THE NEXT PAGE

"*"Barcode Area"*"
Sequential Bar Code

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA

(h) Using evidence from the map, suggest THREE reasons that could account for the absence of settlements east of Easting 25.

1. .....

.....

.....

.....

.....

.....

.....

2. .....

.....

.....

.....

.....

.....

.....

3. .....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

Total 25 marks

"*"Barcode Area"*"
Sequential Bar Code

2. (a) Figure 2 represents the formation of three types of rocks. Study it carefully and then answer (a) (i) to (iii).

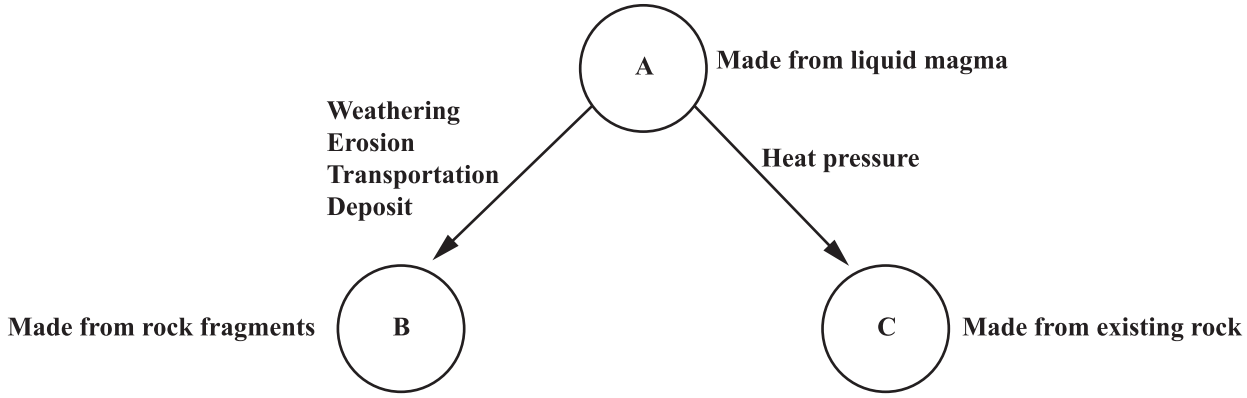


Figure 2. Formation of types of rocks

(i) What type of rock is MOST likely to be included at A?

.....

(1 mark)

(ii) State TWO processes that help to transform Type A rocks to Type B rocks.

.....

.....

(2 marks)

(iii) From the information in Figure 2, outline how metamorphic rocks are formed.

.....

.....

.....

(2 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

"*"Barcode Area"*"
Sequential Bar Code

(b) (i) Define EACH of the following terms.

Soil creep

.....

.....

.....

.....

Mass wasting

.....

.....

.....

.....

(4 marks)

(ii) Explain how the MAIN form of weathering occurs in karst (limestone) landscapes.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA

"*"Barcode Area"*"
Sequential Bar Code

(c) In October 2010, the district of Soufriere, a mountainous region in the southwest of Saint Lucia, experienced devastating landslides. Explain why a landslide occurred in this situation.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

"*"Barcode Area"*"
Sequential Bar Code

(d) Explain how vegetation contributes to the formation of latosols in tropical rainforests.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

Total 25 marks

DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA

"*"Barcode Area"*"
Sequential Bar Code

3. (a) Study the map of the Caribbean given below and then answer (a) (i) to (ii).

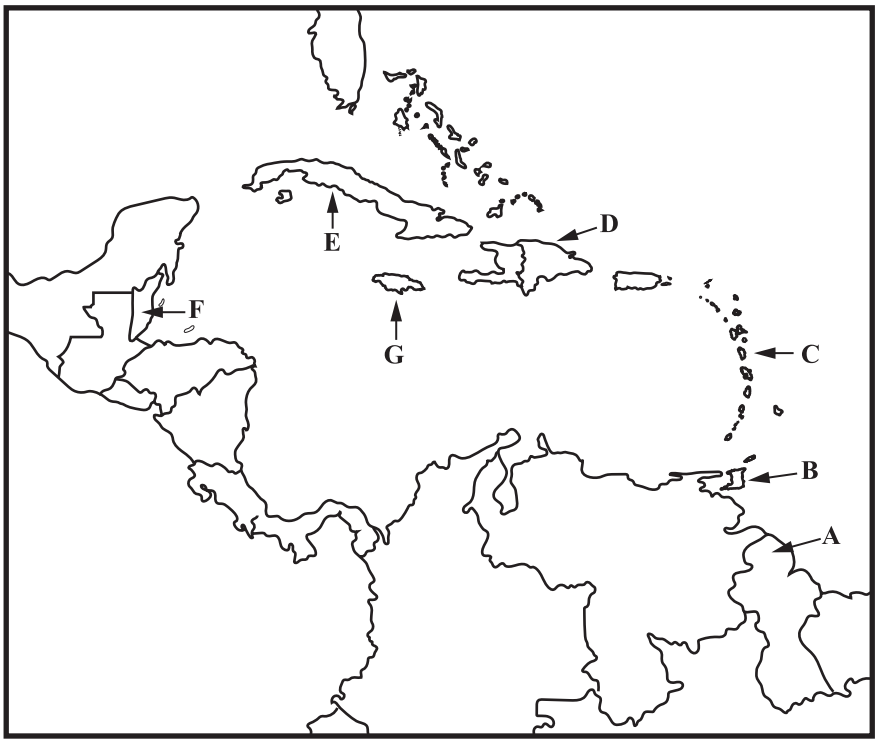


Figure 3. Map of the Caribbean

Adapted from https://images.app.goo.gl/rHzwKsaWf2rXeqem8. Retrieved 30 September 2019.

(i) State the names of **any** FIVE of the countries identified by the letters A–G on the map.

A .....

B .....

C .....

D .....

E .....

F .....

G .....

(5 marks)

GO ON TO THE NEXT PAGE

"*"Barcode Area"*"
Sequential Bar Code

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

(ii) Name ONE non-renewable natural resource used for commercial purposes that is found in **any** FOUR of the countries identified in (a) (i).

Country	Natural Resource

(4 marks)

(b) Differentiate between 'renewable resources' and 'non-renewable resources.'

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

"*"Barcode Area"*"
Sequential Bar Code

(c) Explain how any TWO factors may NEGATIVELY affect the growth of the food processing industry in the Caribbean.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

GO ON TO THE NEXT PAGE

"*"Barcode Area"*"
Sequential Bar Code

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

(d) Explain how TWO measures implemented by Caribbean governments have assisted in the development of the food processing industry in the region.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

Total 25 marks

GO ON TO THE NEXT PAGE

"*"Barcode Area"*"
Sequential Bar Code

DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA

4. (a) Figure 4 shows the annual occurrence of natural disaster events in Latin America and the Caribbean. Study the figure and then answer (a) (i) to (iv).

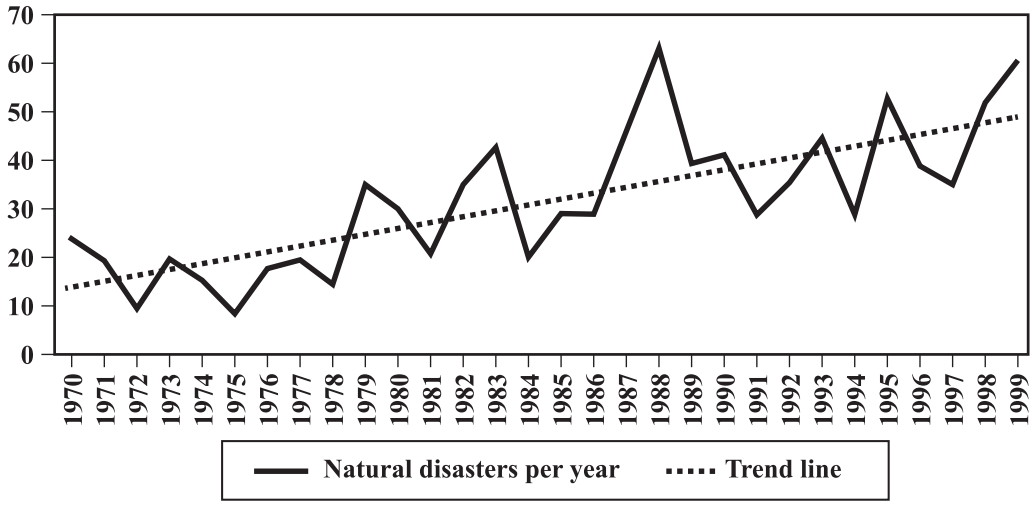


Figure 4. Annual occurrence of natural disaster events in Latin America and the Caribbean (1970–1999)

(i) How many disaster events were there in 1999?

.....

(1 mark)

(ii) Which year had the highest occurrence of natural disasters?

.....

(1 mark)

(iii) Identify ONE year in which there were approximately ten disaster events.

.....

(1 mark)

(iv) During the 1980s, which year had the LEAST number of disaster events?

.....

(1 mark)

(v) What is the trend in disaster events between 1970 and 1999?

.....

(1 mark)

GO ON TO THE NEXT PAGE

"*"Barcode Area"*"
Sequential Bar Code

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA

(b) (i) Distinguish between a 'natural hazard' and a 'natural disaster'.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

(ii) The table below lists two natural hazards. State the names of TWO Caribbean countries where EACH of these hazards became a disaster.

Hazard	Countries Impacted
Earthquake	
Hurricane	

(4 marks)

"*"Barcode Area"*"
Sequential Bar Code

(c) Explain ONE possible **long-term effect** of EITHER an earthquake OR a volcanic eruption on EACH of the following areas of a country.

Infrastructure

.....

.....

.....

.....

.....

.....

.....

.....

Economy

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

"*"Barcode Area"*"
Sequential Bar Code

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

(d) Explain how TWO measures used by local disaster preparedness agencies in the Caribbean may help to reduce the impact of a natural hazard.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)

Total 25 marks

END OF TEST

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

"*"Barcode Area"*"
Sequential Bar Code

DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA

ST. CHRISTOPHER

62°45′00″

BASSETERRE

17°20′00″N

17°20′00

3 19 000E · 3 20 000E · 3 21 000E · 3 22 000E · 3 23 000E · 3 24 000E · 3 25 000E · 3 26 000E · 3 27 000E

1 916 000N · 1 915 000N · 1 914 000N · 1 913 000N · 1 912 000N · 1 911 000N · 1 910 000N

Bayford's · Ogee's · Ogees River · Olivees Mountain · Fountain Estate · Stapleton · Stapleton Estate · Parry's · Monkey Hill · Monkey Hill · Milliken Estate · White House · St Peter's · Douglas Estate · Ruined Tower · Storage Tank · Ruin · College Gut · Golden Rock Airport · Golf Course · Canada Estate · Barkers Point · Bridge Gut · Upper Canada Estate · Greatheeds Pond · Conaree · Upper Conaree · Quarry · Half Moon Pond · Half Moon Point · Needsmust Estate · Taylor's · Kit Stoddart's · Pond Estate · Muddy Pond · Olivees · Shadwell Estate · South Olivees River · Dewars · Buckleys Estate · Frontier Gut · Camp · Limekiln · Limekiln Bay · Camp Baye · Fort Thomas · BASSETERRE · Treasury Pier · East Pier · Fort Smith · Factory Estate · Bird Rock · Golf Course (Under Construction) · Frigate Bay · Fort Tyson Ruins · Salt Pond · Potatoe Bay · Frigate Bay · Hospital · Cemetery · Police Station · Post Office · Factory · Tanks · Jetty · Factory Pier · Power Station · Tower · Ruin · Chy · Sch · Ch · Cha · Park · Reservoir · Water Tank · Pol Sta · PT · Hosp · Gov Ho · Ct Ho · Tanks

K1 △134 · K2 △160 · K3 · K4 △520 · K5 △629 · K6 △159 · K7 △366 · K8 △232 · K9 △79 · K10 △274 · K11 △200 · K12 △47 · K14 △120 · 8 K48

DOS 2940

62°45′00″ West of Greenwich

Reproduced from DOS 343 St. Christopher
Edition 3 1975 with full British West Indies Grid added

© CROWN COPYRIGHT 1983

Prepared by Directorate of Overseas Surveys
Printed by Stephen Austin and Sons Ltd., England
for Caribbean Examinations Council, 1983

SCALE 1:25,000

Mile 1 · ¾ · ½ · ¼ · 0 · 1 · 2 · 3 Miles

Yards 1000 · 0 · 1000 · 2000 · 3000 · 4000 · 5000 Yards

Metres 1000 · 500 · 0 · 1 · 2 · 3 · 4 Kilometres

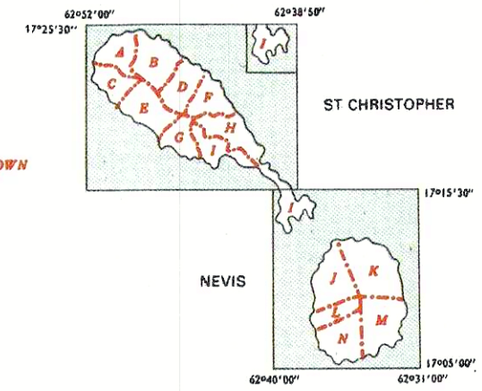
Main Roads — Bridge — Sealed Surface — Loose Surface
Secondary Roads
Other Roads
Tracks
Footpaths
Railways (Light)
Named Buildings
Other Buildings
Police Station — Pol Sta
Post, Telegraph Office — PT
Hospital — Hosp
Church, Chapel, School — Ch · Cha · Sch
Court House, Hotel — Ct Ho · H
Trigonometrical Stations:- Main △
:- Minor ▽
Parish Boundaries
Fences, Hedges

Coral
Rocks, Cliffs
Heights in feet given to ground level — *1092
Contours V.I. 50′ — 550 · 500 · 450
Sand
Watercourse, Dam, Pond
Water Tank — WT
Swamp
Mangrove
Cultivation and Plantation — (C = Coconut SC = Sugar Cane)
Forest
Low Forest, Woodland
Scrub
Line of Trees
Palms

The representation on this map of a Road, Track or Footpath, is no evidence of the existence of a right of way.

PARISH BOUNDARIES

A - ST. PAUL CAPISTERRE
B - ST. JOHN CAPISTERRE
C - ST. ANNE SANDY POINT
D - CHRIST CHURCH NICHOLA TOWN
E - ST. THOMAS MIDDLE ISLAND
F - ST. MARY CAYON
G - TRINITY PALMETTO POINT
H - ST. PETER BASSETERRE
I - ST. GEORGE BASSETERRE
J - ST. THOMAS LOWLAND
K - ST. JAMES WINDWARD
L - ST. PAUL CHARLESTOWN
M - ST. GEORGE GINGERLAND
N - ST. JOHN FIGTREE



The alignment of Parish Boundaries on this map is approximate.

Grid North 13′32″W
Magnetic North 10°43′ W · True North

At Sheet Centre
Magnetic Variation as at January 1970
Annual Change 07′ West

TO GIVE A GRID REFERENCE ON THIS SHEET			
PAY ATTENTION TO LARGER MARGINAL FIGURES . VIZ 22			
POINT △K8			
EAST	Take west edge of square in which point lies and read the figures printed opposite this line (on north or south margin)	23	
	Estimate tenths eastwards to point.	4	
NORTH	Take south edge of square in which point lies and read the figures printed opposite this line (on east or west margin)		13
	Estimate tenths northwards to point.		6
REFERENCE		234	136