FORM TP 2017071

TEST CODE **01225020**

MAY/JUNE 2017

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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"*"Barcode Area"*"
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NOTHING HAS BEEN OMITTED

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Answer ALL questions.

1. Study the map extract of Port Antonio, on a scale of 1:50 000 **(provided as an insert)**, and answer the following questions.

(a) State the six figure grid reference of the school at Spring Bank (near Port Antonio).

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(2 marks)

(b) Identify a river landform in grid square 0369.

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(1 mark)

(c) What is the compass direction of the church at Spring Bank **from** the transmitter at Boundbrook?

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(1 mark)

(d) Determine the bearing of the church at Spring Bank **from** the post office near St Margaret's Bay.

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(2 marks)

(e) Measure the straight line distance from the church at Spring Bank to the point where the Back Rio Grande joins the Rio Grande.

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(2 marks)

(f) Calculate the gradient from the 560 m circular contour line at Samba Hill near Northing 64, to the 40 m contour line at the point where the Back Rio Grande joins the Rio Grande.

Do your calculation here.

(4 marks)

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(g) State FOUR features of the drainage south of Northing 62.

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(4 marks)

(h) Describe the distribution of settlements in the area between Eastings 01 and 09, and Northings 67 and 73.

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(3 marks)

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(i) Outline THREE reasons for the distribution of banana plantations and mixed or scattered cultivation. Use evidence from the map to support your answer.

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(6 marks)

Total 25 marks

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2. Study Table 1 which shows the average annual amount of sediment deposited into River X during the period 2005–2010, and answer the questions that follow.

TABLE 1: SEDIMENT DEPOSITED INTO RIVER X DURING 2005–2010

Year	Amount of Sediment (metric tonnes per year)
2005	300
2006	450
2007	225
2008	700
2009	900
2010	575

(a) On the grid provided in Figure 1 **on page 9**,

(i) draw a bar graph to illustrate the data presented in Table 1

(ii) provide a title for the graph

(iii) label each axis correctly. **(5 marks)**

(b) Describe TWO ways by which a river transports its load.

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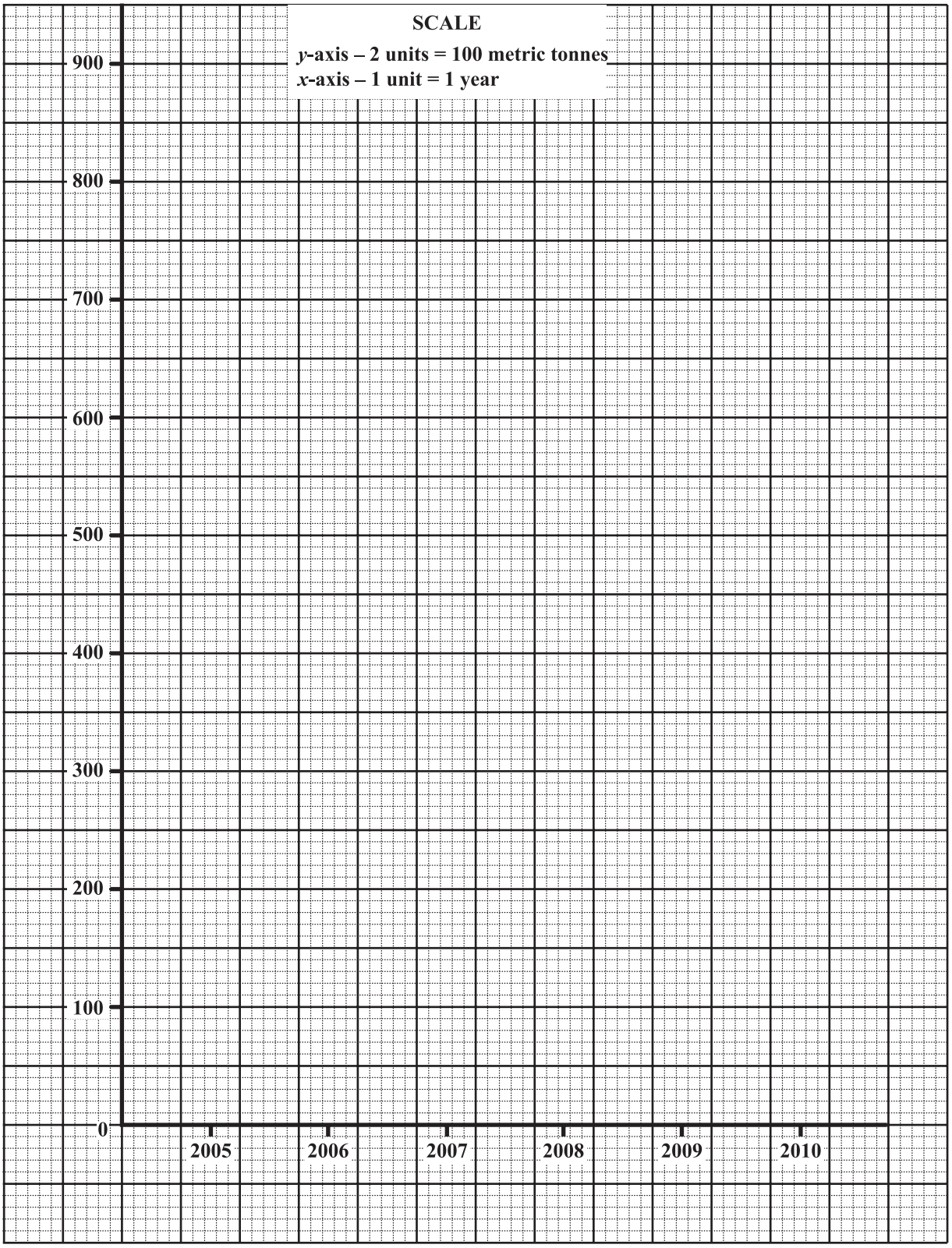
(4 marks)

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Title .....



Axis label .....

Axis label .....

Figure 1.

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(c) Complete Table 2 by describing the shape and rock structure of the drainage patterns indicated.

TABLE 2: DRAINAGE PATTERN

Drainage Pattern	Shape	Rock Structure
Radial	Circular, dome-shaped	Volcanic cone
Trellis		
Dendritic		

(4 marks)

(d) Explain how a flood plain is formed. Your answer may be a set of well-labelled diagrams.

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(6 marks)

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(e) For a named Caribbean country, assess the value of any TWO measures that have been used by national agencies to reduce the impact of flooding.

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3. (a) Figure 2 shows a population pyramid of Barbados for 2014. Study the pyramid, and answer the questions that follow.

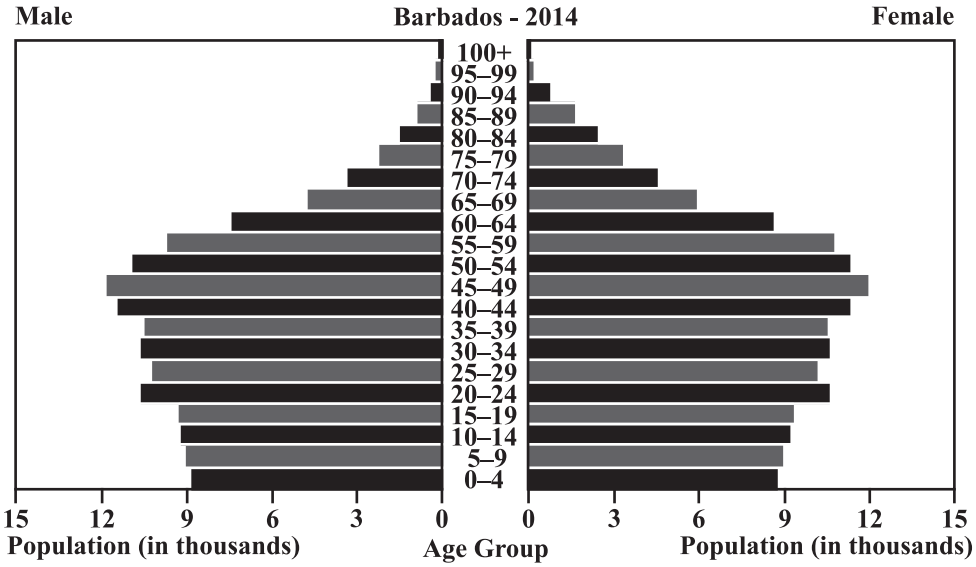


Figure 2. Population pyramid for Barbados

Source: http://www.indexmundi.com barbados/age=structure.html

(i) What is the age range for each group represented on the population pyramid?

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(1 mark)

(ii) Which age group had the LARGEST number of persons?

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(1 mark)

(iii) How many females were between the age group 5–9?

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(1 mark)

(iv) How many males were between the age group 10–19?

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(1 mark)

(v) Identify ONE particular age group which had twice as many females as males.

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(1 mark)

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

Urbanization: .....

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Urban sprawl: .....

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(2 marks)

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(ii) Describe THREE problems caused by population growth in urban areas of the Caribbean.

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(c) (i) Explain how any THREE of the following factors have influenced the development of the tourism industry in the Caribbean.

- Location
- Climate
- Physical features
- Culture

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(ii) Explain TWO measures that have been implemented to reduce the impact of tourism development on the coastal environment in the Caribbean.

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Total 25 marks

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4. (a) (i) Draw a sketch map of a **named** Caribbean country. **(3 marks)**

(ii) On the sketch map drawn in (a) (i), indicate the location of a **named** industrial area. **(2 marks)**

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(b) (i) Define the following terms:

Global warming: .....

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Greenhouse effect: .....

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(4 marks)

(ii) Complete Table 3 by stating the human activity that results in the production of the greenhouse gas or the greenhouse gas produced by the activity indicated.

TABLE 3: HUMAN ACTIVITY AND GREENHOUSE GASES

Human Activity	Greenhouse Gas
Burining of fossil fuels, deforestation	
	Nitrogen oxide
Livestock and rice production	
	Chlorofluorocarbons (CFCs)

(4 marks)

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(c) (i) Identify ONE mitigation measure that has been used in both the Caribbean and the United Kingdom OR the USA to reduce climate change.

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(1 mark)

(ii) For the measure identified in (c) (i), compare its effectiveness, in the Caribbean, with EITHER that in the United Kingdom OR the USA.

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(4 marks)

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(iii) For a named Caribbean territory, explain TWO ways in which the manufacturing industry contributes to environmental degradation.

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(7 marks)

Total 25 marks

END OF TEST

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

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Exam Extract No 806/JAM14

Four colours should appear above: if not then please return to the invigilator.

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JAMAICA

PORT ANTONIO

300000mE 01 02 03 04 05 06 07 08 09 310 11 12 13 14 15 16 17 18 19 320 321000mE

175000mN 74 73 72 71 170 69 68 67 66 65 64 63 62 61 160 59 58 57 56 155000mN

Ship Rock · Downers Bluff · Ship Head · Rio Grande Bridge · ST MARGARET'S BAY · Jetties · Snow Hill Halt · Passley Gardens Halt · Burlington · WHITE HALL · NORWICH · Norwich Halt · Nose Point · NAVY ISLAND · Folly Point · Wood Island · SALT CREEK · Jetty · Fort George · Folly Ruins · Crab Point · BRYANS BAY · Bryans Bay · WEST HARBOUR · EAST HARBOUR · Infirmary · Pegg Point · Burnetts Point · TURTLE CHANNEL HARBOUR · DANIELS HARBOUR · COCOA WALK BAY · COLD HARBOUR · Alligator Head · UNITY BAY · Pellew Island · LIME KILN BAY · SALT CREEK BAY · FAIRY HILL BAY · Blue Hole · King Point · Stony Hill · Boundbrook · BOUNDBROOK · Shotover · Cuffie Head · MOUNT PLEASANT · Mount Pleasant · UNITY VALLEY · Rio Grande · PORT ANTONIO · ANCHOVY VALLEY · Williamsfield · WILLIAMSFIELD · FAIRFIELD · FAIRY HILL · Spring Bank · Breastworks · DARLEY · Darley · Maidstone · DISTRICT · Berridale · Foxes River · Nonsuch · Look Out · Cambridge · ORANGE VALLEY · PEN · Boston · Boston Pen Point · North East Point · LYNCHES BAY · Boston Beach · LITTLE BAY · BOSTON BAY · BOSTON · Sherwood Forest · CASTLE COMFORT · FELLOWSHIP · Hooper Hill · Bourbon · Coopers Hill · Toms Hope · TOMS HOPE · CAMBRIDGE · KENMAY · Mountain 333 · PRIESTMANS RIVER · Islington · Durham · Stanton Harcourt · Samba Hill · GOLDEN VALE · Newington · PORTLAND · CAMBRIDGE BACKLAND · JOHN McROBERT · EGG HILL · Commodore · Windsor Forest · Pumpkin Hill · Windsor · WINDSOR · Johns Hall · Corn Husk River · SEAMANS VALLEY · Seamans Valley · Bellevue · BOSTON · Mammee Hill · JOE HILL · JOHN CROW MOUNTAINS · Alligator Church · SARATOGA · Stony River · Rio Grande · MOORE TOWN (Maroon Settlement) · ROSE GARDEN MOUNTAIN · RURAL · Hog Grass Bump · Cornwall Barracks · FRIENDSHIP VALLEY · Site of Nanny Town · Hard Dog Bump · Ginger House · Jupiter Fording · CORNWALL PEN · COMFORT CASTLE · Ecclesdown · Guava River · John Crow Hill

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

Grid North · True North · Magnetic North · 2°49' · 2°

At Sheet Centre
Magnetic Variation as at January 1980
Annual Change 9' West

LEGEND

- Road - Class A, Dual Carriageway
- Bridge — Road - Class B
- " - Class C
- " - Other
- Motorable Track or Footpath
- Built-up Area
- Named Building, Hotel, Other Building
- ST ANN'S BAY — Large Town
- RETREAT — Town
- CARRON HALL — Minor Town
- Chester — Village
- Station Halt Cutting LC — Railway
- Embankment — Light Railway or Siding
- Railway tunnel
- Power Transmission Line
- Boundary - County
- " - Parish
- Boundary - Forest Reserve
- Trigonometrical Station
- 288 — Photogrammetric Spot Height
- 200 — 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
- Water Tank, Borehole
- Well, Spring
- Rice
- Mangrove
- Marsh or Swamp
- Coral
- Sand or Gravel
- Lighthouse, Chimney
- Point of Interest
- Transmitter
- Games Field / Playground
- Flat Rock
- Cliff, Quarry

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 Monument
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

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