TEST CODE **01225032**

FORM TP 2009076

MAY/JUNE 2009

CARIBBEAN EXAMINATIONS COUNCIL

SECONDARY EDUCATION CERTIFICATE EXAMINATION

GEOGRAPHY

Paper 03/2 – General Proficiency

1½ hours

Answer ALL questions.

In addition to the 1½ hours, candidates are advised to spend 15 minutes reading through this paper and planning their responses. Writing MAY begin during this time.

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper consists of **SIX** questions.
2. Answer **ALL** questions.
3. Write your answers in the spaces provided in the booklet.
4. The use of non-programmable calculators is permitted.
5. The use of geometrical instruments is permitted.

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

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NOTHING HAS BEEN OMITTED

Answer ALL questions.

1. A map of Port of Spain on a scale of 1:25 000 is provided as an insert for use in this question.

Imagine that you are studying the changes in land use west of Cantaro in the Santa Cruz River valley.

In the frame of Figure 1 and using the map provided, draw a sketch map of the study area to show the following features:

(a) Cantaro village

(b) The 500 foot contour line (Label the land over 500 feet.)

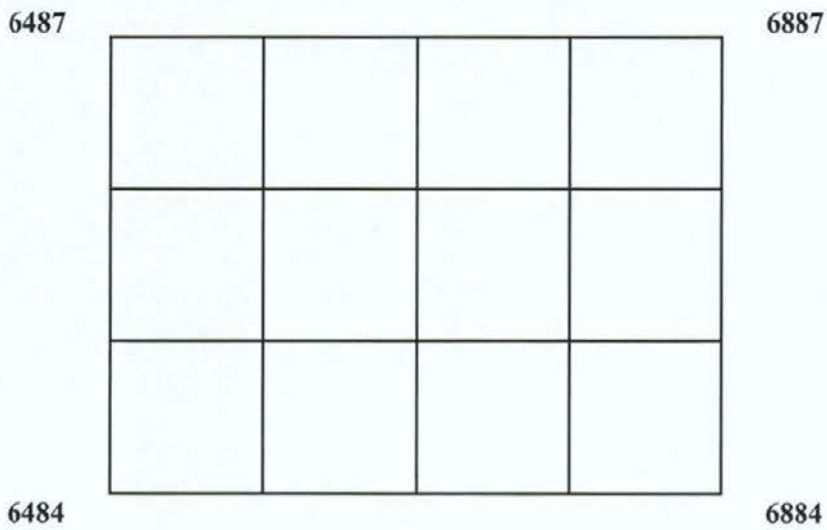
(c) The areas of cultivation

(d) The unnamed streams

(e) Saddle Road

Note that the scale of the frame is 1:50 000.

The four-figure grid references have been placed at the corners of the frame.



Scale 1:50 000

Figure 1. Study Area – Valley west of Cantaro

(4 marks)

2. You want to study the discharge of a small tributary stream at different points along its length. Frame a research question or hypothesis to guide the field research.

(2 marks)

3. (a) For the project in Question 2, describe THREE features about which you will collect data to determine the discharge.

(6 marks)

(b) Explain how you would collect the data you described in (a).

(5 marks)

(c) (i) Identify ONE problem, other than illness or bad weather, which you may encounter in conducting the research.

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_____

(1 mark)

(ii) Explain how you would overcome that problem.

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(2 marks)

4. Table 1 shows the measurements across the channel from a level line to the bed of a small stream. The measurements were taken at intervals of 50 cm on a bend in the course. The width of the channel is 4 metres. Point A is on the outer bank and Point H on the inner bank.

(a) On the grid provided in Figure 2 on page 7, draw the shape of the channel using the data in Table 1.

Use a scale of 1 cm to represent 25 cm on both axes.

TABLE 1: DEPTHS OF STREAM CHANNEL

Point	Distance to Bed from Level Line at 50 cm intervals across the Channel (in cm)
A	75
B	75
C	65
D	55
E	40
F	25
G	15
H	10
I	0

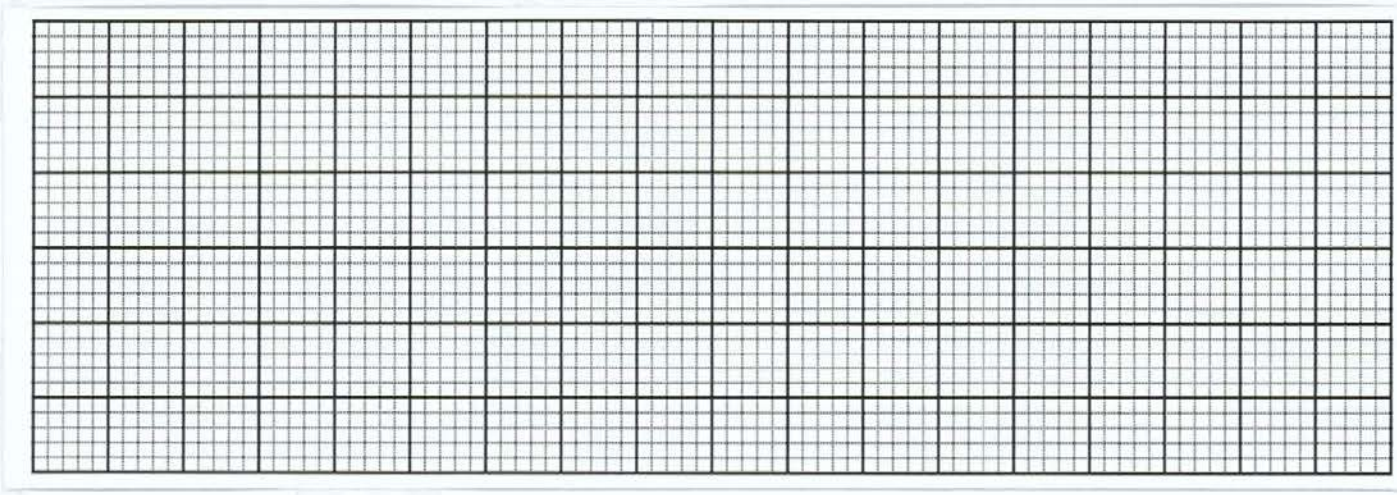


Figure 2. Shape of channel on the bend

(3 marks)

(b) Study the information in Table 1 and the diagram you have drawn in Figure 2 and write a brief description of the characteristics of the channel on the bend.

(4 marks)

(c) Calculate the cross-sectional area of the channel.

(2 marks)

5. Table 2 shows a summary of the land use in an area in 1970 and in 2008.

TABLE 2: PERCENTAGE OF LAND USE BY CATEGORY IN 1970 AND 2008 IN AREA X

Category	Land Use (%)	
	1970	**2008**
Built-up area	15	25
Citrus	25	05
Cocoa	15	10
Other Crops	10	20
Forest	30	30
Scrub	05	10

(a) Using the grid provided in Figure 3 on page 9, draw a bar graph to illustrate the data in Table 2. Use a scale of 1 cm to represent 10%. **(3 marks)**

(b) Identify another method by which you could illustrate the data.

_____

(1 mark)

(c) Study the data in Table 2 and summarise and comment on the changes in land use.

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(6 marks)

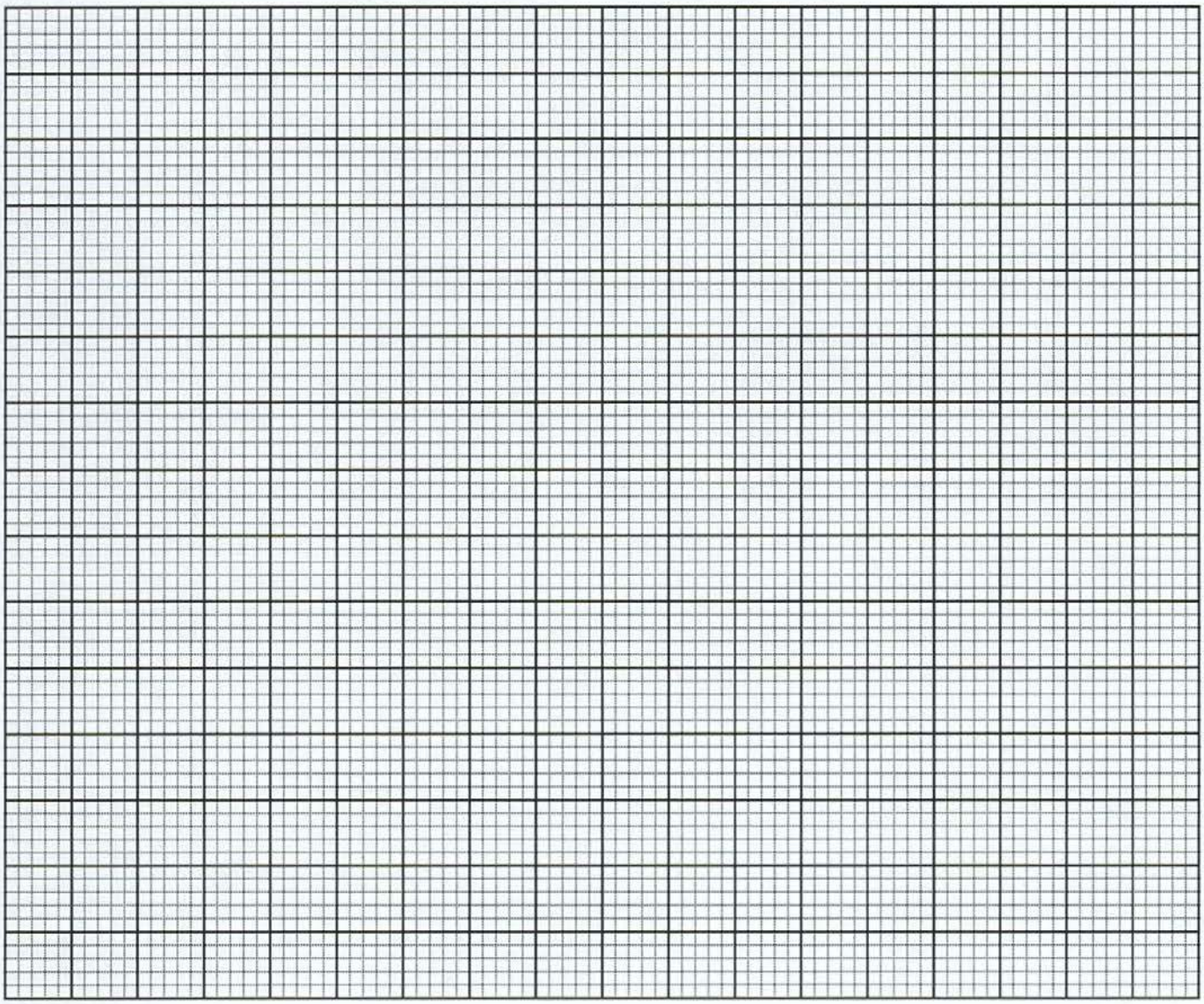


Figure 3. Percentage land use by category in 1970 and 2008

6. In planning your research you consulted a text for which the details are given in Table 3.

TABLE 3: DETAILS OF PUBLICATION

Item	Description
Year	1999
Place	Walton-on-Thames
Publisher	Thomas Nelson and Sons Ltd.
Title	Geography Fieldwork Projects
Author	Jennifer Frew

Present the information in Table 3 as part of the bibliography for your report.

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(1 mark)

Total 40 marks

END OF TEST