

FORM TP 2016216



TEST CODE **02125032**

MAY/JUNE 2016

**CARIBBEAN EXAMINATIONS COUNCIL**

**CARIBBEAN ADVANCED PROFICIENCY EXAMINATION®**

**GEOGRAPHY**

**POPULATION GEOGRAPHY, GEOMORPHIC  
PROCESSES AND HAZARDS**

**UNIT 1 – Paper 032**

*1 hour 30 minutes*

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY.**

1. This paper consists of THREE compulsory questions.
2. Answer ALL questions.
3. Write your answers in the spaces provided in this booklet.
4. You may use a silent, non-programmable calculator to answer questions.
5. You may use geometrical instruments.

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

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Answer-ALL questions.

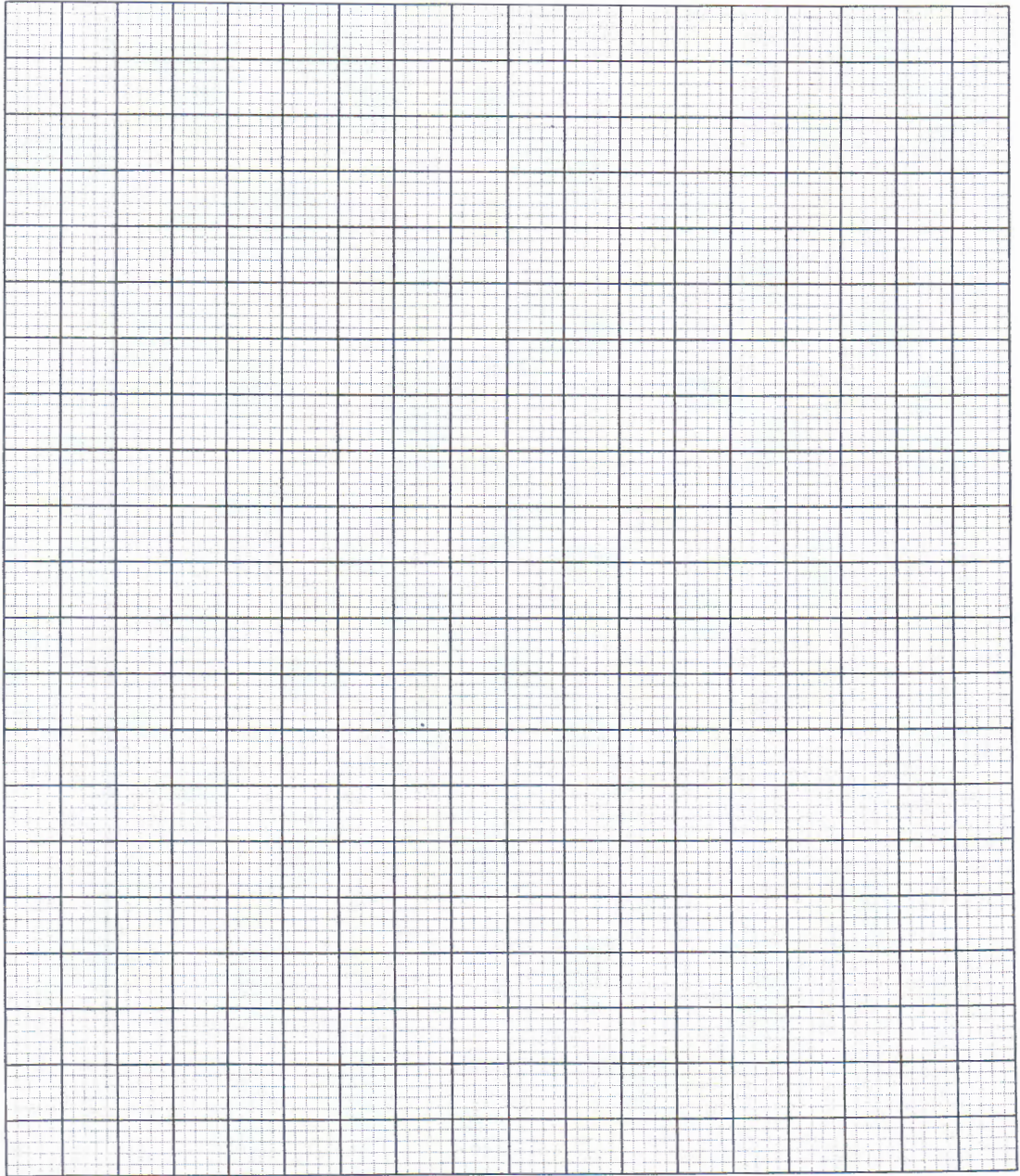
1. Table 1, showing the number of people living in urban and rural areas in Costa Rica, is incomplete.

**TABLE 1: PERCENTAGE OF THE POPULATION LIVING IN URBAN AND RURAL AREAS IN COSTA RICA, 1960–2010**

Year	Urban Population (million)	Percentage of Total	Rural Population (million)	Percentage of Total
1960	0.46	34.33	0.88	65.67
1970	0.71	39.01	1.11	60.99
1980	1.01	43.16	1.33	56.84
1990	1.56		1.51	
2000	2.31		1.61	
2010	2.99		1.67	

- (a) Complete Table 1 by inserting the appropriate percentages. **[6 marks]**
- (b) Using the graph paper provided on page 5, construct line graphs to illustrate the growth of the urban and rural populations. **[12 marks]**

**Total 18 marks**



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2. (a) The following measurements are obtained from a field study of a stream.

**TABLE 2: STREAM MEASUREMENTS**

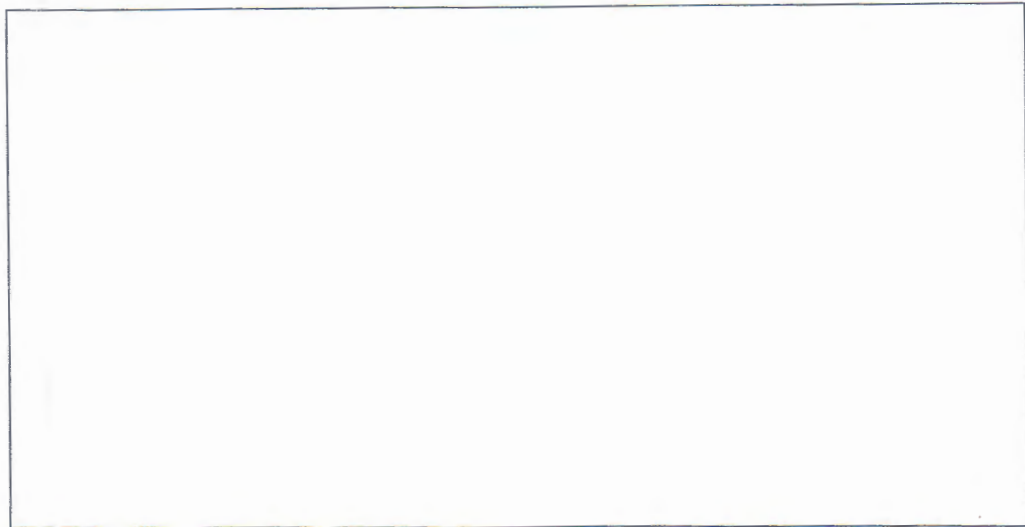
Stream Feature	Measure (m)
Mean channel depth	1
Width of channel	9
Distance travelled by float in 8 seconds	10

Calculate the stream discharge.

[8 marks]

- (b) The vegetation over a wide area has been removed for the construction of a housing estate.

- (i) Draw flood hydrographs to illustrate the influence of this change in land use on river discharge. Indicate CLEARLY the lines representing 'Before' and 'After' the construction of the housing estate.



[6 marks]

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(ii) Account for the changes shown in (b) (i).

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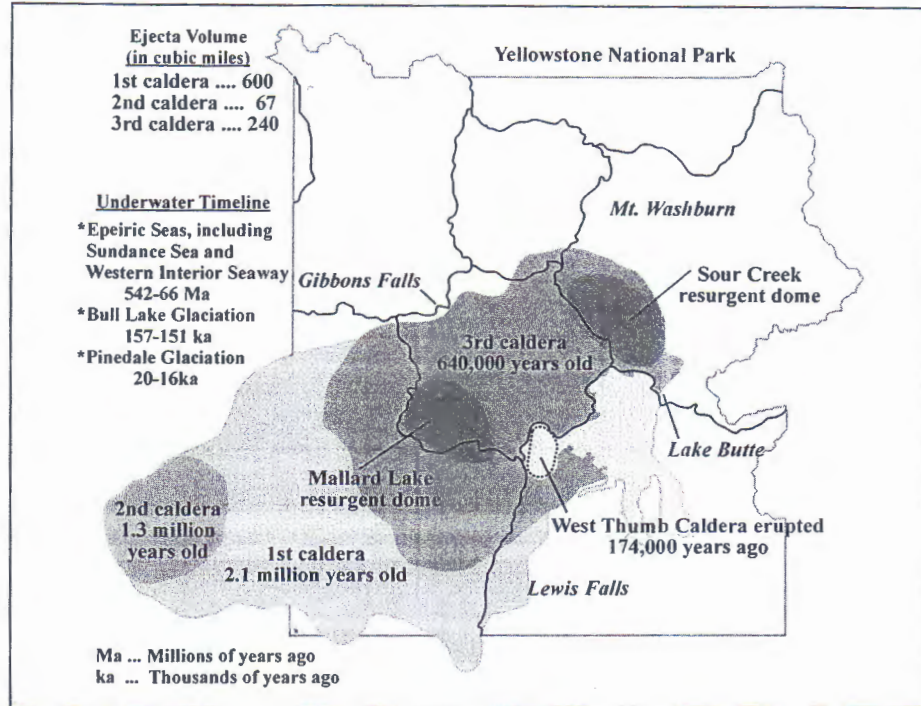
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[4 marks]

Total 18 marks

3. (a) Study Figure 1 which is a diagram of the Yellowstone National Park Caldera in the United States of America, and answer the question that follows.



Source: <http://digitaljournal.com/article/361719>

Figure 1. Yellowstone National Park Caldera



- (b) Study Figure 2 which shows the arrival times of seismic wave, and answer the questions that follow.

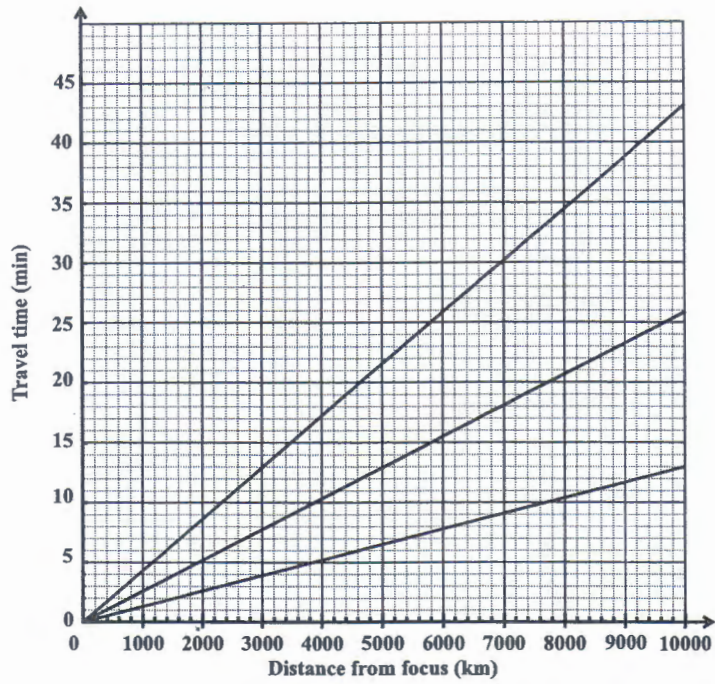


Figure 2. Arrival times of seismic waves

- (i) On the figure, label the primary, secondary and Rayleigh waves. [3 marks]
- (ii) What is the difference in arrival time between the primary and secondary waves at 9000 km from the focus?

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[1 mark]



- (c) You have been asked to assess the likelihood that an area would be subject to river flooding. Describe TWO land surface characteristics that you should take into consideration in your assessment.

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[4 marks]

Total 18 marks

END OF TEST

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

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