Please check the examination details below before entering your candidate information

Candidate surname	Other names

Pearson Edexcel
International
Advanced Level

Centre Number | | | | | |

Candidate Number | | | | |

Thursday 9 January 2020

Afternoon (Time: 1 hour 30 minutes) | Paper Reference **WGE02/01**

Geography

International Advanced Subsidiary
Paper 2: Geographical Investigations

You must have:
Resource Booklet (enclosed)

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **ALL** questions in Sections A and B.
- In Section C answer **EITHER** Question 4 **OR** Question 5.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- Calculators may be used.

Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

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SECTION A

CROWDED COASTS

Answer ALL questions in this section. Write your answers in the spaces provided.

1 Study Figure 1 in the Resource Booklet.

(a) (i) Identify the nearshore and the backshore zones shown in Figure 1.

(2)

Zone	Number
Nearshore	
Backshore	

(ii) Explain **one** way rock structure influences the rate of coastal erosion.

(2)

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(b) Examine how the sediment cell concept helps understanding of the coast as a system.

(8)

(Total for Question 1 = 12 marks)

2 Study Figure 2 in the Resource Booklet.

(a) (i) Identify **two** pieces of evidence that suggest this area has been recently regenerated.

(2)

1 .....

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2 .....

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(ii) Explain **one** solution a named city has used to reduce air pollution from urban transport.

(2)

Named city .....

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(b) Assess how far waste management is a major issue for cities in developed and developing countries.

(8)

(Total for Question 2 = 12 marks)

TOTAL FOR SECTION A = 24 MARKS

SECTION B

COMPULSORY FIELDWORK SECTION

Answer ALL parts of Question 3 in this section. Write your answers in the spaces provided.

3 You have undertaken geography fieldwork as part of your course.

Use this experience to answer this question.

State the title or question of your fieldwork investigation:

(a) Explain how **one** geographical model or theory helped you to develop the title or question for your investigation.

(3)

(b) Explain **one** technique you used to collect quantitative data as part of your investigation.

(3)

(c) Explain how you selected the location(s) and sites for your primary data collection.

(6)

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(d) Evaluate the accuracy and reliability of the conclusions to your investigation.

(12)

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(Total for Question 3 = 24 marks)

TOTAL FOR SECTION B = 24 MARKS

SECTION C

GEOGRAPHICAL FIELDWORK AND SKILLS

Answer ONE question in this section – EITHER Question 4 OR Question 5.

Write your answers in the spaces provided.

Investigating Crowded Coasts

If you answer Question 4 put a cross in the box ☒ .

4 Study Figures 3a and 3b in the Resource Booklet.

A group of students studied coastal management as part of a study into erosion risk.

They started their investigation by looking at a photograph of the area (Figure 3a) and developing their own cliff stability index (Figure 3b).

(a) (i) Identify **two** risks for students investigating the area shown in Figure 3a.

(2)

1 .....

2 .....

(ii) Suggest **two** problems with using the students' cliff stability index shown in Figure 3b.

(4)

1 .....

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(b) Study the information below.

The students also visited a nearby town and used a questionnaire to investigate perceptions of coastal threats. The people questioned were asked to select what they considered to be the main threat to the coast from a list. Their results are presented in the table below.

Coastal risks and threats	Number of responses
Flooding	47
Erosion	35
Loss of land and property	63
Pollution	3
Sea level rise	23
Coastal development	9
Poorly maintained sea defences	27
Storms	15

The people's responses were plotted on a pie chart, Figure 3c, below.

(i) Complete Figure 3c by labelling, in the appropriate boxes, each of the following:

1. Flooding
2. Sea level rise

(2)

Percentage of responses – coastal risks and threats

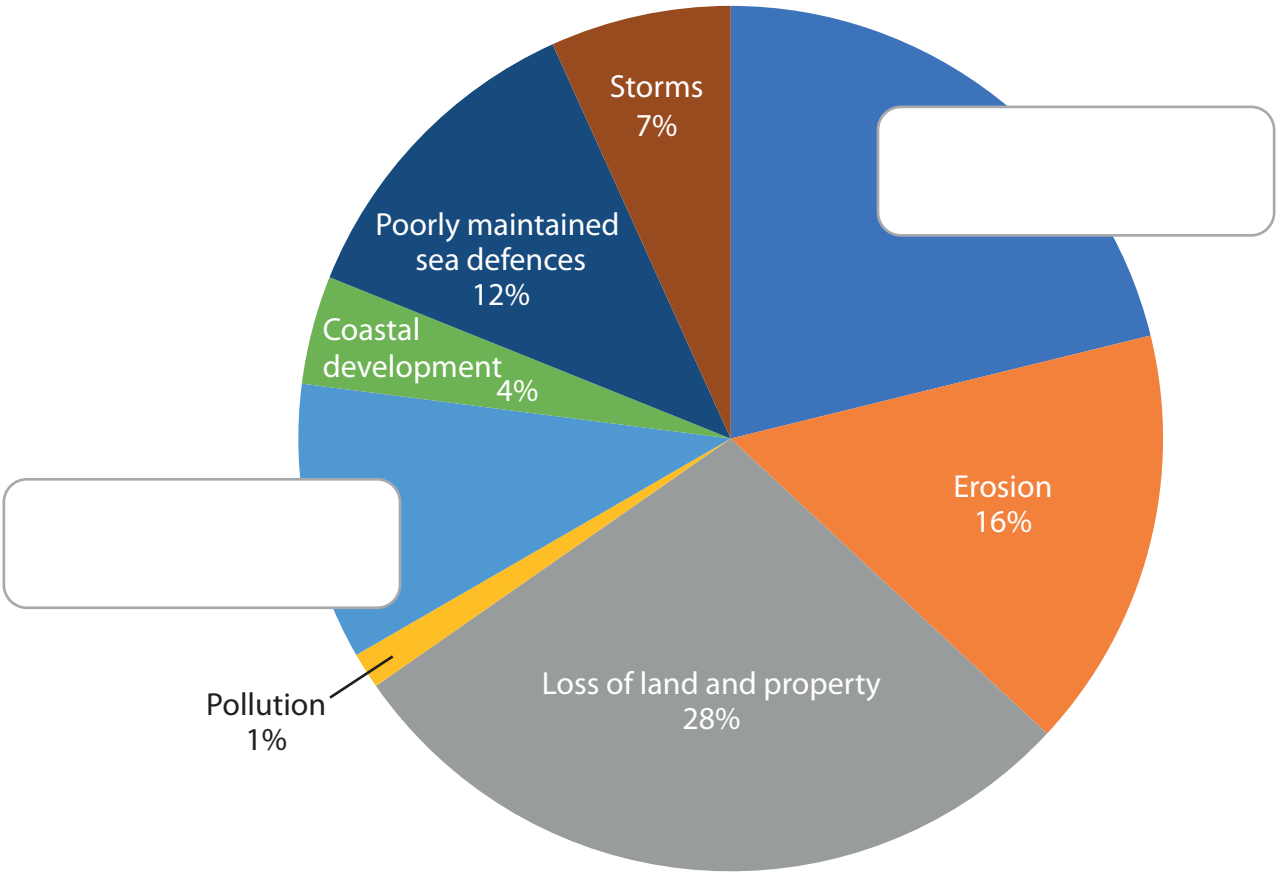

Figure 3c

A summary of the results of the responses to the students' questionnaires

(ii) Calculate the questionnaire sample size.

(1)

.....

(iii) Calculate the range of the data responses.

(1)

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(c) Suggest **one** possible limitation in the collection of this questionnaire data.

(2)

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(Total for Question 4 = 12 marks)

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Investigating Urban Problems, Planning and Regeneration

If you answer Question 5 put a cross in the box ☒ .

5 Study Figures 4a and 4b in the Resource Booklet.

A group of students studied rebranding as part of a study into the wider impacts of regeneration.

They started their investigation by looking at a photograph of the area (Figure 4a) and developing their own urban rebranding index (Figure 4b).

(a) (i) Identify **two** risks for students investigating the area shown in Figure 4a.

(2)

1 .....

2 .....

(ii) Suggest **two** problems with using the students' urban rebranding index shown in Figure 4b.

(4)

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(b) Study the information below.

The students also visited a nearby town and used a questionnaire to investigate perceptions of transport problems. The people questioned were asked to select what they considered to be the main transport problem from a list. Their results are presented in the table below.

Transport problems	Number of responses
Dirty	47
Overcrowded	35
Late / unreliable	63
Poor service frequency	3
High cost	23
Limited network	9
Poorly maintained	27
Poor customer service	15

The people's responses were plotted on a pie chart, Figure 4c, below.

(i) Complete Figure 4c by labelling, in the appropriate boxes, each of the following:

1. Dirty
2. High cost

(2)

Percentage of responses – transport problems

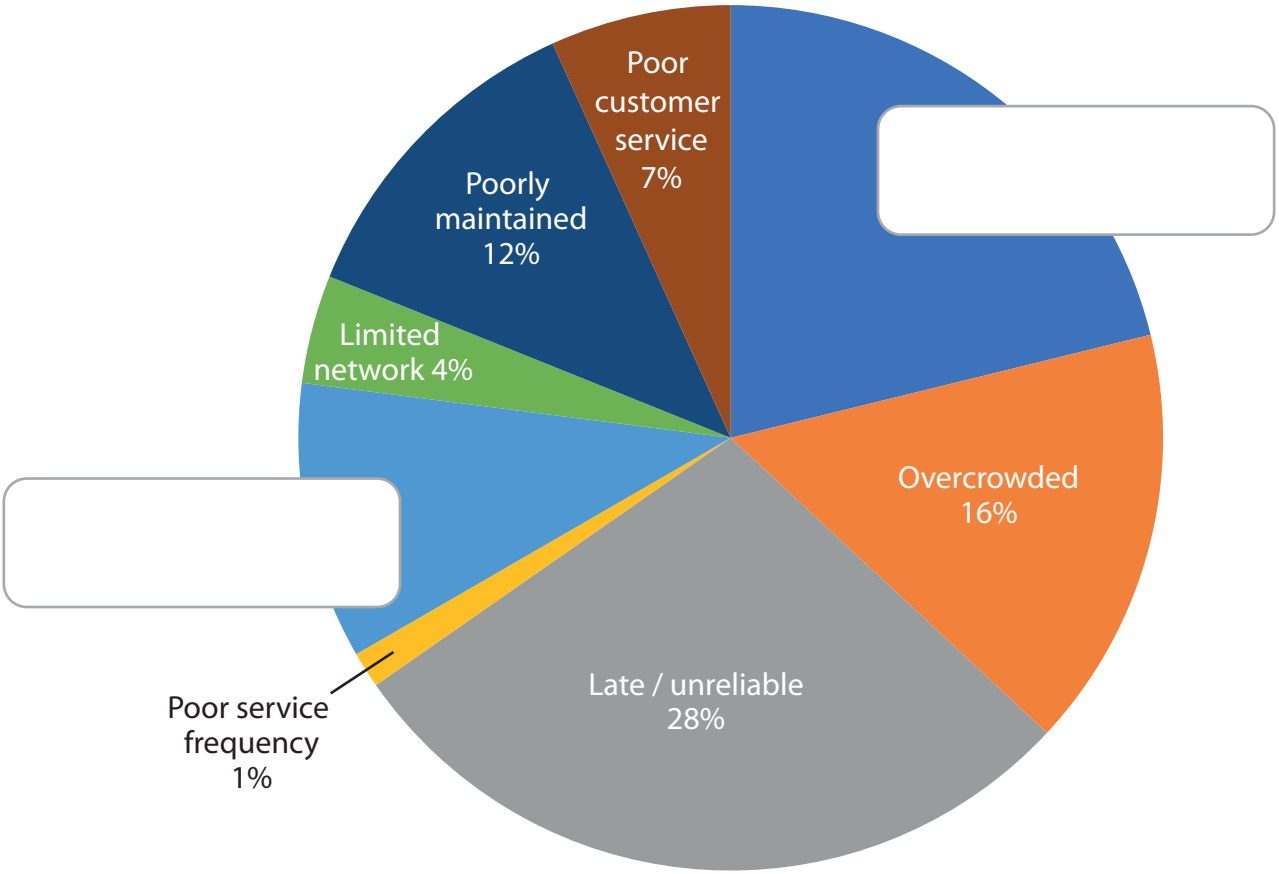

Figure 4c

A summary of the results of the responses to the students' questionnaires

(ii) Calculate the questionnaire sample size.

(1)

.....

(iii) Calculate the range of the data responses.

(1)

.....

(c) Suggest **one** possible limitation in the collection of this questionnaire data.

(2)

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(Total for Question 5 = 12 marks)

TOTAL FOR SECTION C = 12 MARKS
TOTAL FOR PAPER = 60 MARKS

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Pearson Edexcel International Advanced Level

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Geography

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Resource Booklet
Do not return this Resource Booklet with the question paper.

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Figure 1

An example of a littoral zone and coastal system

Figure 2

A recently regenerated urban area in Barcelona, Spain

Turn over ▼

Figure 3a

Coastal cliffs in southern England

Factor	1	2	3	4
Rock type	Resistant metamorphic and volcanic	Limestones, sandstones and conglomerates	Coarse unconsolidated sediments, non-resistant metamorphic	Fine unconsolidated materials
Cliff colour	Black rocks	Grey rocks	Cream-coloured	Mixture of colours
Cliff slope (°)	<25	25–49	51–75	>75
Beach width	Wide beach	Medium beach	Narrow beach	No beach
Relative sea level change (mm / year)	−1	−1 to +1	+1 to 2.5	>3.0

Figure 3b

The students' cliff stability index

Figure 4a

An urban area in central Cologne, Germany

Factor	1	2	3	4
Architectural quality of the building	High quality and in keeping with surrounding area	Quality construction, mostly in keeping with surrounds	Mixed quality construction, may not fit well into area	Looks cheaply made and does not fit into landscape
Cleanliness	Lots of litter everywhere	Some litter	Good street furniture	Well-maintained street furniture
Tourism facilities	Lots	Some	Limited	Absent
Vitality	Very busy	Medium people	Low numbers of people	No people
Conserved heritage (%)	>50%	25–48%	10–24%	<5%

Figure 4b

The students' urban rebranding index

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Pearson Education Ltd. gratefully acknowledges all following sources used in preparation of this paper:

Figure 1 (Source: https://www.google.com/maps)

Figure 2 (Source: © David Holmes)

Figure 3a (Source: © David Holmes)

Figure 4a (Source: © David Holmes)