Write your name here

Surname	Other names

Pearson Edexcel
International Advanced Level

Centre Number | | | | | |

Candidate Number | | | | |

Geography

International Advanced Subsidiary
Paper 2: Geographical Investigations

Thursday 24 May 2018 – Morning
Time: 1 hour 30 minutes

Paper Reference
WGE02/01

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. Write your answers in the spaces provided.

1 (a) Study Figure 1.

(i) Identify the hard engineering structures labelled A and B on Figure 1.

(2)

A .....

B .....

(ii) Explain **one** way in which coastal management decisions can lead to conflict.

(2)

.....

.....

.....

.....

(b) Examine how both lithology and structure affect the rates of coastal recession.

(8)

(Total for Question 1 = 12 marks)

2 (a) Study Figure 2.

(i) State **two** trends in the data shown.

(2)

1 .....

.....

2 .....

.....

(ii) Explain **one** way that an eco-city has been planned to have a low ecological footprint.

(2)

.....

.....

.....

.....

(b) Assess the extent to which large-scale infrastructure projects lead to successful urban regeneration.

(8)

(Total for Question 2 = 12 marks)

TOTAL FOR SECTION A = 24 MARKS

SECTION B

COMPULSORY FIELDWORK SECTION

Answer ALL questions 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 Question 3.

State the title or question of your fieldwork investigation:

(a) Explain how you identified the title or question for your fieldwork investigation.

(4)

(b) Explain **one** way you used ICT to analyse your fieldwork data.

(2)

(c) Explain how data from secondary sources provided evidence to support your conclusions.

(6)

(d) Evaluate the design **and** methods of your primary fieldwork data collection.

(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.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

Investigating Crowded Coasts

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

4 (a) Study Figure 3a.

A group of students studied sand dunes as part of a study into coastal ecosystems.

They started their investigation by using a photograph of the area they intended to study (Figure 3a) so they could consider safety.

(i) Identify **one** risk for students investigating the area shown.

(1)

.....

.....

(ii) Explain **one** way you could manage a risk identified in Figure 3a.

(3)

.....

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(b) Study Figure 3b.

The students also visited a shingle beach to investigate the sediment (pebble) characteristics in relation to coastal erosion risk.

(i) Calculate the **mean** number of pebbles classified as rounded.

You must show your working.

(2)

(ii) Suggest **one** reason why the students chose to collect data at 10 sites.

(2)

(iii) Explain **one** graphical and **one** cartographic way the data in Figure 3b could be presented.

(4)

Graphical

Cartographic

(Total for Question 4 = 12 marks)

Investigating Urban Problems, Planning and Regeneration

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

5 (a) Study Figure 4a.

A group of students studied urban traffic as part of a study into managing transport.

They started their investigation by using a photograph of the area they intended to study (Figure 4a) so they could consider safety.

(i) Identify **one** risk for students investigating the area shown.

(1)

.....

.....

(ii) Explain one way you could manage a risk identified in Figure 4a.

(3)

.....

.....

.....

.....

.....

.....

(b) Study Figure 4b.

The students also visited several traffic intersections to measure vehicle flows in relation to managing transport.

(i) Calculate the mean number of vehicles classified as 4x4s / SUVs.

You must show your working.

(2)

.....

(ii) Suggest **one** reason why the students chose to collect data at 10 sites.

(2)

(iii) Explain **one** graphical and **one** cartographic way the data in Figure 4b could be presented.

(4)

Graphical

Cartographic

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

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Pearson

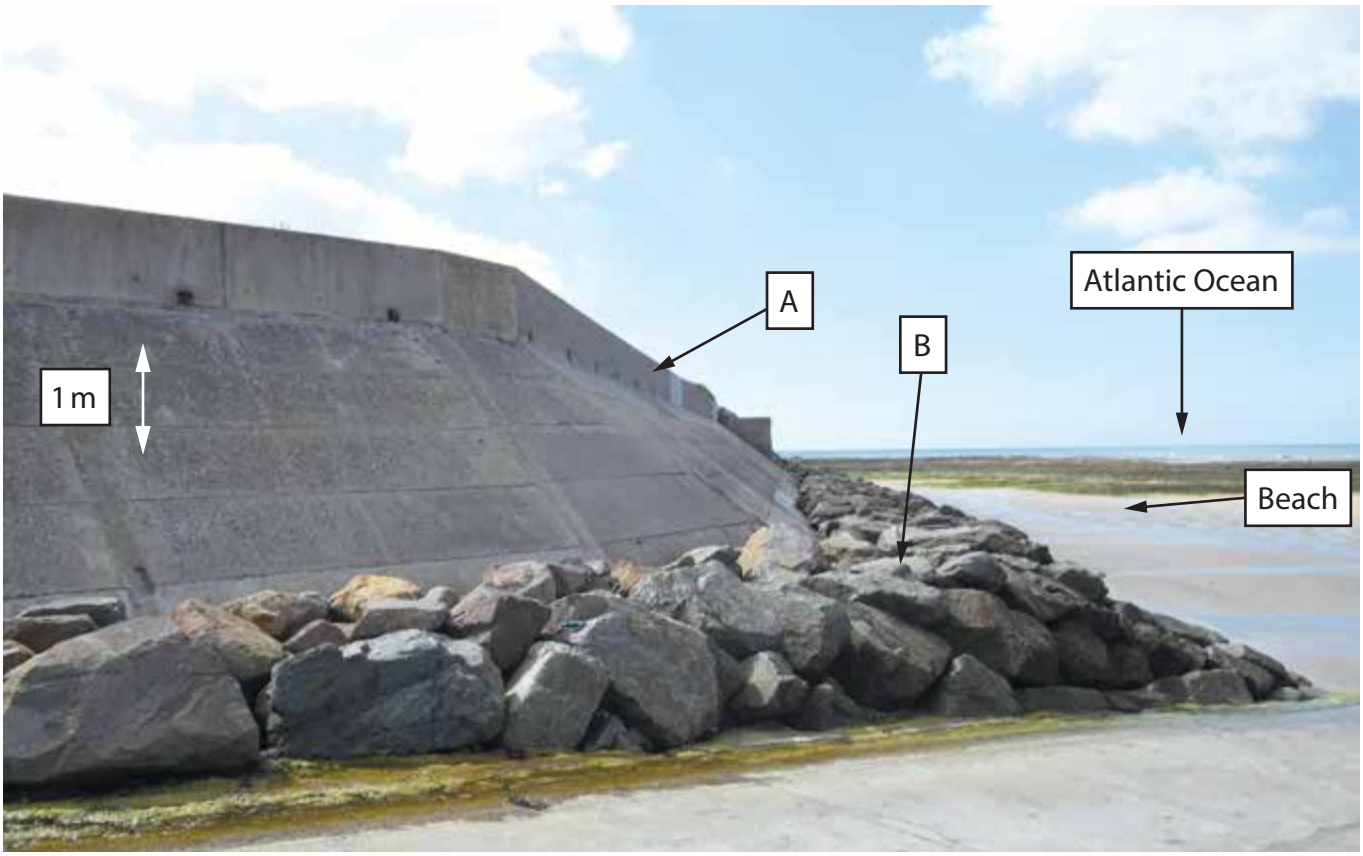
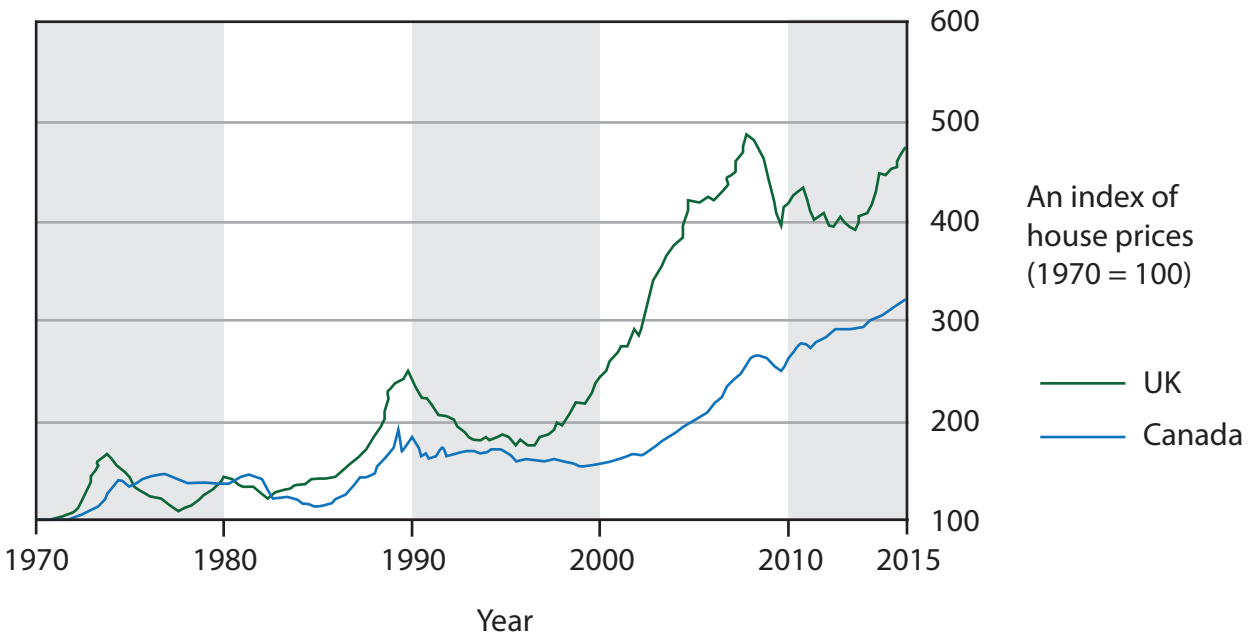


Figure 1

Examples of coastal hard engineering structures, western France



(Source: http://www.economist.com/blogs/dailychart/2011/11/global-house-prices)

Figure 2

An index of house price changes for UK and Canada between 1970 and 2015

Figure 3a

Photograph used in a study of coastal ecosystems, Mediterranean coast of Spain

Site number and distance from the sea (m)	Average sediment size (cm)	Number of pebbles classified as rounded
Site 1 – 0	8.4	18
Site 2 – 100	8.9	20
Site 3 – 160	7.7	26
Site 4 – 250	8.1	38
Site 5 – 280	6.1	23
Site 6 – 300	5.8	35
Site 7 – 310	6.2	44
Site 8 – 400	7.2	22
Site 9 – 450	5.8	62
Site 10 – 490	5.4	71

Figure 3b

Primary data collected at 10 sites

Figure 4a

Photograph used in a study of transport management, Muscat, Oman

Site number and distance from the city centre (km)	Average vehicles (per minute)	Number of vehicles classified as 4x4s/SUVs
Site 1 – 0	84	71
Site 2 – 1.0	89	62
Site 3 – 1.6	77	22
Site 4 – 2.5	81	44
Site 5 – 2.8	61	35
Site 6 – 3.0	58	23
Site 7 – 3.1	62	38
Site 8 – 4.0	72	26
Site 9 – 4.5	58	20
Site 10 – 4.9	54	18

Figure 4b

Primary fieldwork data collected at 10 sites

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