GradeMax

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)

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

(8)

(Total for Question 1 = 12 marks)

URBAN PROBLEMS, PLANNING AND REGENERATION

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)

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(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)

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(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)

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(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)

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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)

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

(3)

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(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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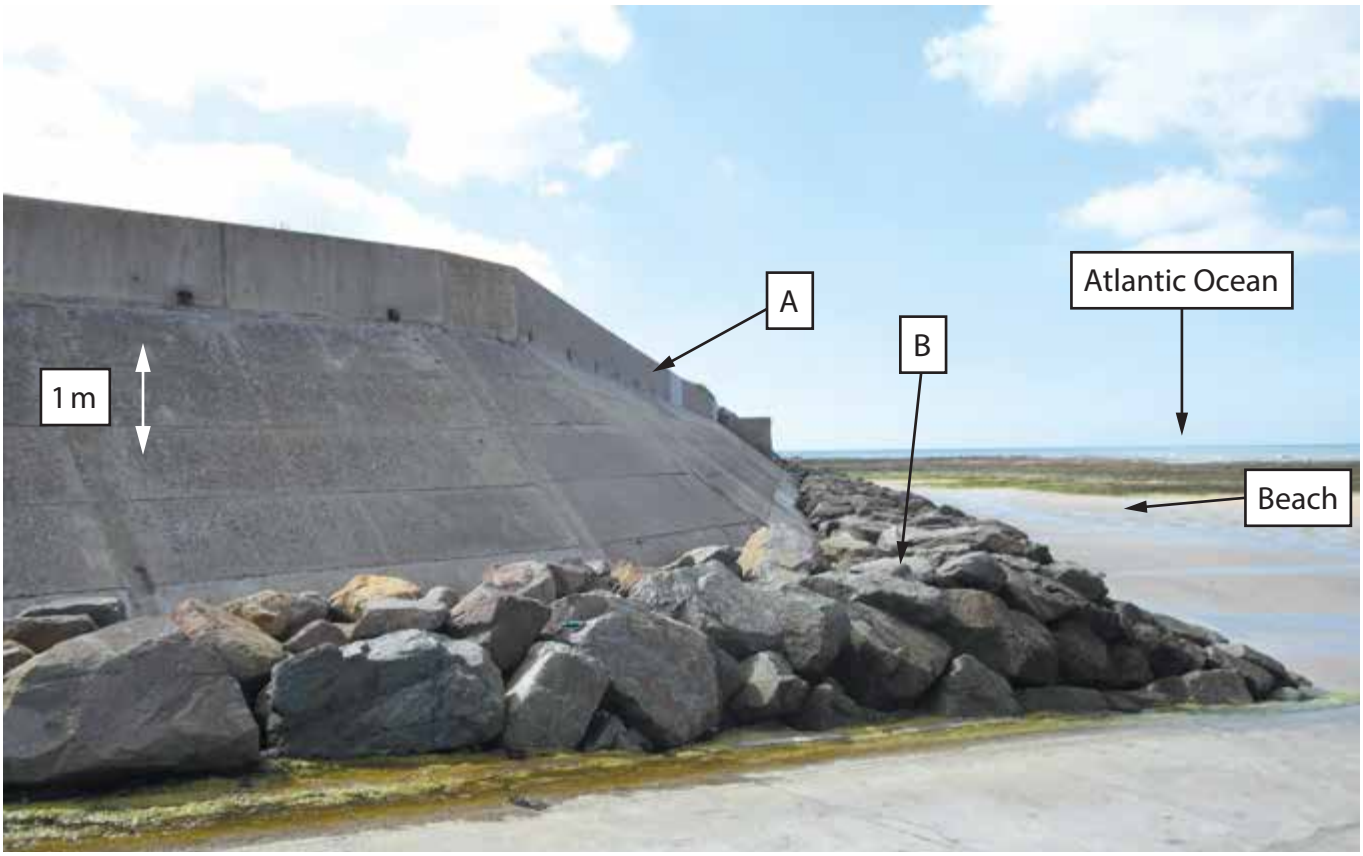
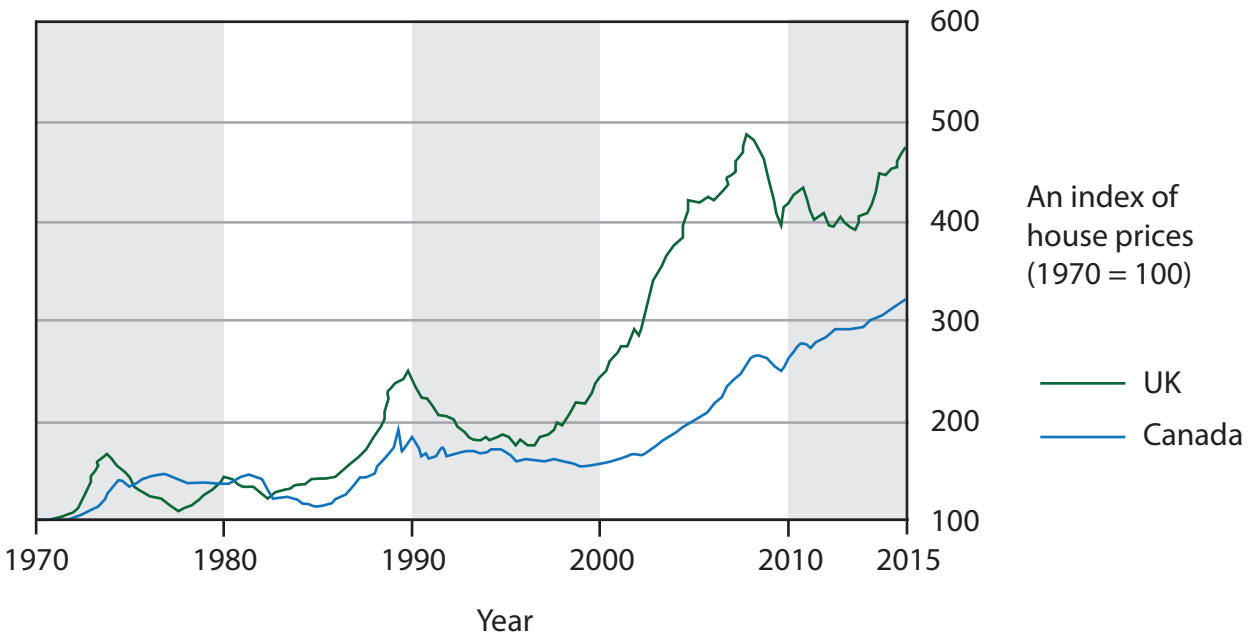


Figure 1

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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