

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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**Pearson Edexcel International Advanced Level**

**Tuesday 23 May 2023**

Afternoon (Time: 1 hour 30 minutes)

Paper  
reference

**WGE02/01**

**Geography**

**International Advanced Subsidiary**

**UNIT 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 and **ONE** question in Section C.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*

### 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.*
- Calculators may be used.

### Advice

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

Turn over ►

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SECTION A

Answer ALL questions in this section. 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 ☒.

Crowded Coasts

1 Study Figure 1 in the Resource Booklet.

(a) (i) Identify the missing label X. (1)

- A Beach nourishment
- B Rip rap
- C Sea wall
- D Groynes

(ii) Identify the missing label Y. (1)

- A Revetment
- B Offshore breakwater
- C Dune stabilisation
- D Cliff re-grading

(b) Explain **one** way that coastal management decisions cause conflict between different players. (2)

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## Urban Problems, Planning and Regeneration

2 Study Figure 2 in the Resource Booklet.

(a) (i) Identify **two** possible problems caused by the population densities of Hong Kong and Dhaka.

(2)

1 .....

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2 .....

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(ii) Explain **one** problem for cities that have low population density.

(2)

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**SECTION B**

**Compulsory Fieldwork Section**

**Answer ALL questions. Write your answers in the spaces provided.**

**3** You have undertaken geography fieldwork as part of the course.

Use this experience to answer Question 3.

State the title or question of your fieldwork investigation.

.....  
.....

(a) Explain **one** reason why your title or question was appropriate for your fieldwork investigation.

(3)

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(b) Explain **one** benefit of using secondary research in your fieldwork investigation.

(3)

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**(Total for Question 3 = 24 marks)**

**TOTAL FOR SECTION B = 24 MARKS**



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## 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.

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

#### Investigating Crowded Coasts

4 (a) Study Figure 3a in the Resource Booklet.

A group of students studied sand dunes as part of a study of coastal ecosystems. They used a photograph of the area they intended to visit (Figure 3a) in order to consider health and safety.

(i) Suggest **one** possible risk for students visiting the area shown.

(2)

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(ii) Explain **one** way the students could manage this risk.

(3)

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The students visited a beach on one morning in August to investigate beach slope and sediment characteristics in relation to coastal erosion risk.

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(b) Study Figure 3b below.

Sample number	Beach slope angle (°)	Length of sediment long axis (mm)
1	8	10
2	5	8
3	5	9
4	12	12
5	4	6
6	6	6
7	8	12
8	8	9
9	10	14
10	13	12

**Figure 3b**

**Beach slope and sediment data on one morning in August**

(i) Calculate the mode for beach slope angle. (1)

.....

(ii) Calculate the median for sediment long axis. (2)

Show your working.

..... mm





## Investigating Urban Problems, Planning and Regeneration

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

- 5 (a) Study Figure 4a in the Resource Booklet.

A group of students studied an urban area as part of a study of regeneration.

They used a photograph of the area they intended to visit (Figure 4a) in order to consider health and safety.

- (i) Suggest **one** possible risk for students visiting the area shown.

(2)

- (ii) Explain **one** way the students could manage this risk.

(3)

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The students visited the city centre on one morning in August to investigate traffic flows in relation to transport issues.

(b) Study Figure 4b below.

Sample number	Noise level (dB)	Number of vehicles (per minute)
1	60	85
2	72	80
3	87	121
4	65	102
5	60	72
6	76	145
7	80	109
8	65	126
9	65	70
10	77	101

**Figure 4b**

**Noise level and vehicle data on one morning in August**

(i) Calculate the mode for noise level. (1)

.....

(ii) Calculate the median for number of vehicles. (2)

Show your working.

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(iii) Explain why the data shown in Figure 4b may lead to unreliable conclusions.

(4)

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**(Total for Question 5 = 12 marks)**

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

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# Pearson Edexcel International Advanced Level

**Tuesday 23 May 2023**

Afternoon (Time: 1 hour 30 minutes)

Paper  
reference

**WGE02/01**

## **Geography**

**International Advanced Subsidiary**

**UNIT 2: Geographical Investigations**

### **Resource Booklet**

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

*Turn over* ►

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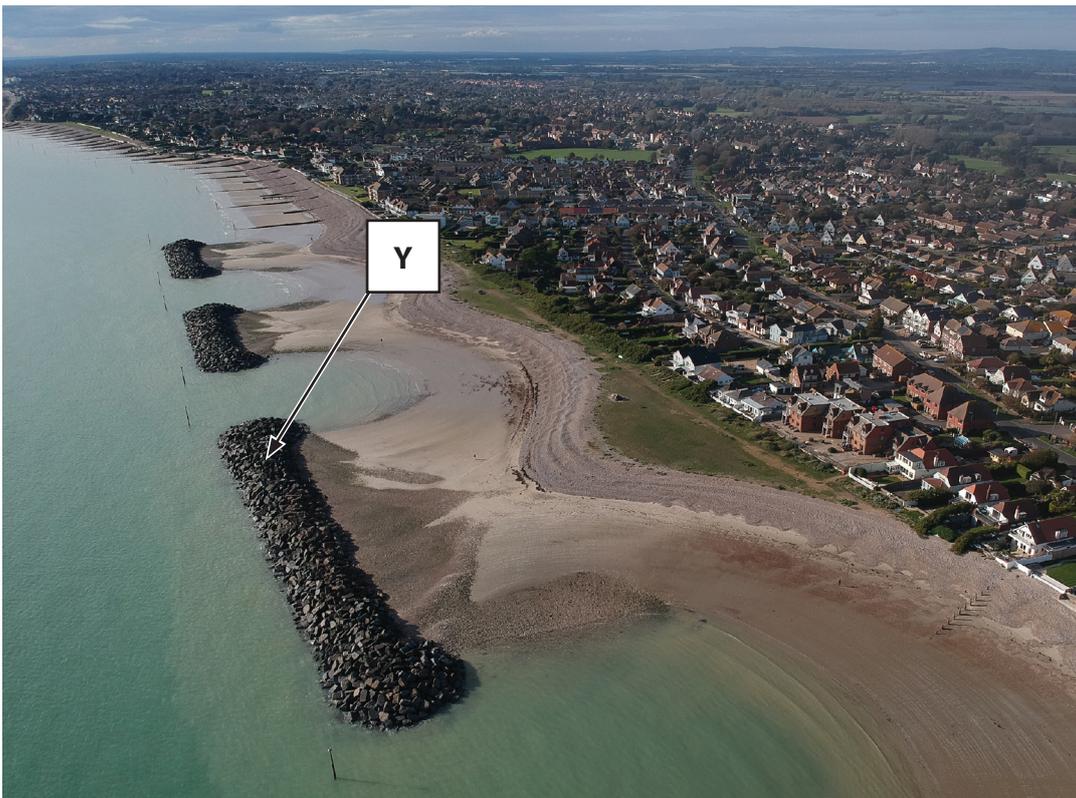
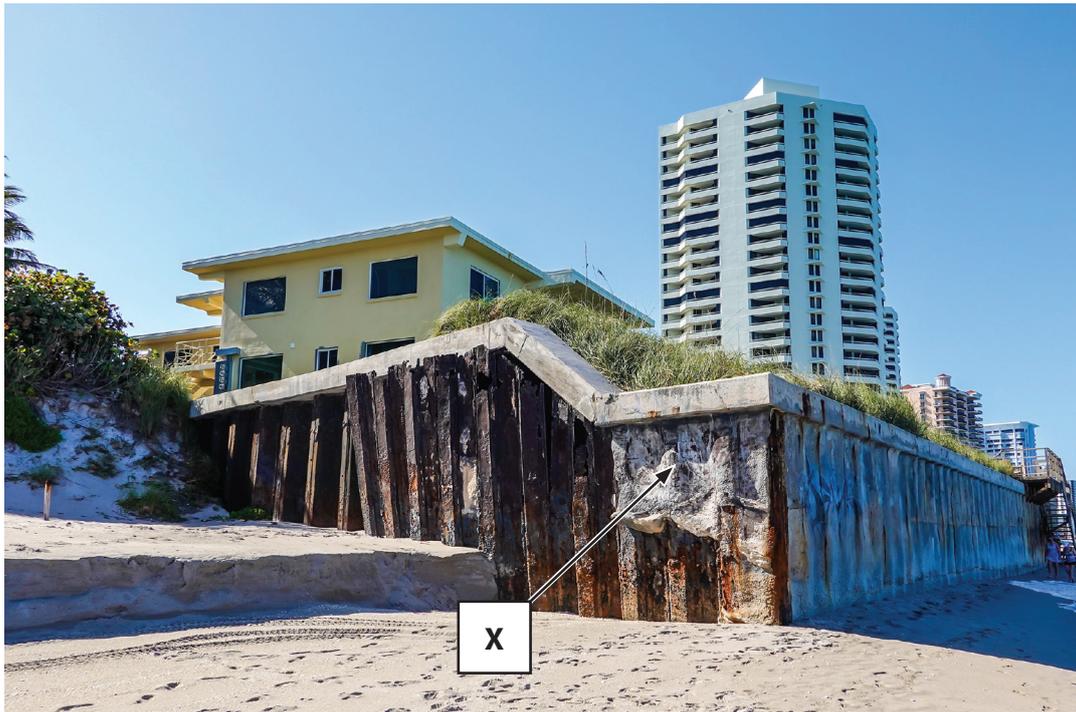
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**SECTION A**

**This resource relates to Question 1.**

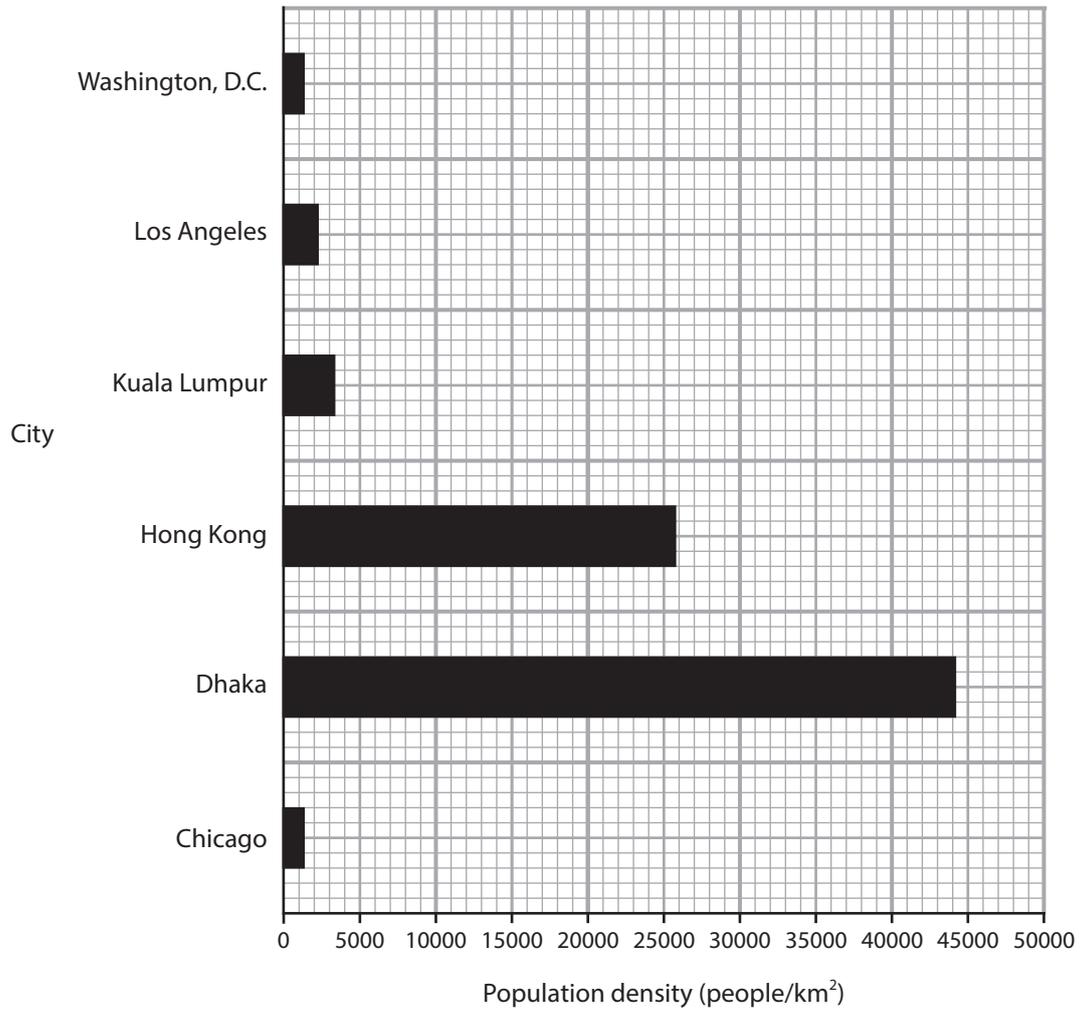


**Figure 1**

**Two types of coastal management**



This resource relates to Question 2.



**Figure 2**  
**Population density for six cities (number of people/km<sup>2</sup>)**



**This resource relates to Question 4.**



**Figure 3a**

**A coastal sand dune ecosystem in southern England**



This resource relates to Question 5.



Figure 4a

An area of Osaka, a city in Japan

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### **Acknowledgements**

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

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Figure 2 adapted from : <https://ourworldindata.org/grapher/population-density-by-city>

Figure 3a : © Lilly Trott/Shutterstock

Figure 4a : © Kristi Blokhin/Shutterstock

