Please check the examination details below before entering your candidate information

Candidate surname | Other names

Centre Number | Candidate Number

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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....

(c) Examine how coastal ecosystems can help protect coasts from erosion and flooding.

(8)

(Total for Question 1 = 12 marks)

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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(b) Assess the problems of waste management for developing and developed world cities.

(8)

(Total for Question 2 = 12 marks)

TOTAL FOR SECTION A = 24 MARKS

P 7 2 5 7 7 A 0 5 1 6

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.

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(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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(c) Explain why the techniques you used to present your geographical data were suitable.

(6)

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

(12)

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(Total for Question 3 = 24 marks)

TOTAL FOR SECTION B = 24 MARKS

P 7 2 5 7 7 A 0 8 1 6

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.

(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

(iii) Explain why the data shown in Figure 3b may lead to unreliable conclusions.

(4)

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(Total for Question 4 = 12 marks)

P 7 2 5 7 7 A 0 1 1 1 6

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)

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

(3)

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P 7 2 5 7 7 A 0 1 2 1 6

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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P 7 2 5 7 7 A 0 1 3 1 6

(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)

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

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P 7 2 5 7 7 A 0 1 5 1 6

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P 7 2 5 7 7 A 0 1 6 1 6

Pearson Edexcel International Advanced Level

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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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SECTION A

This resource relates to Question 1.

X

Y

Figure 1

Two types of coastal management

This resource relates to Question 2.
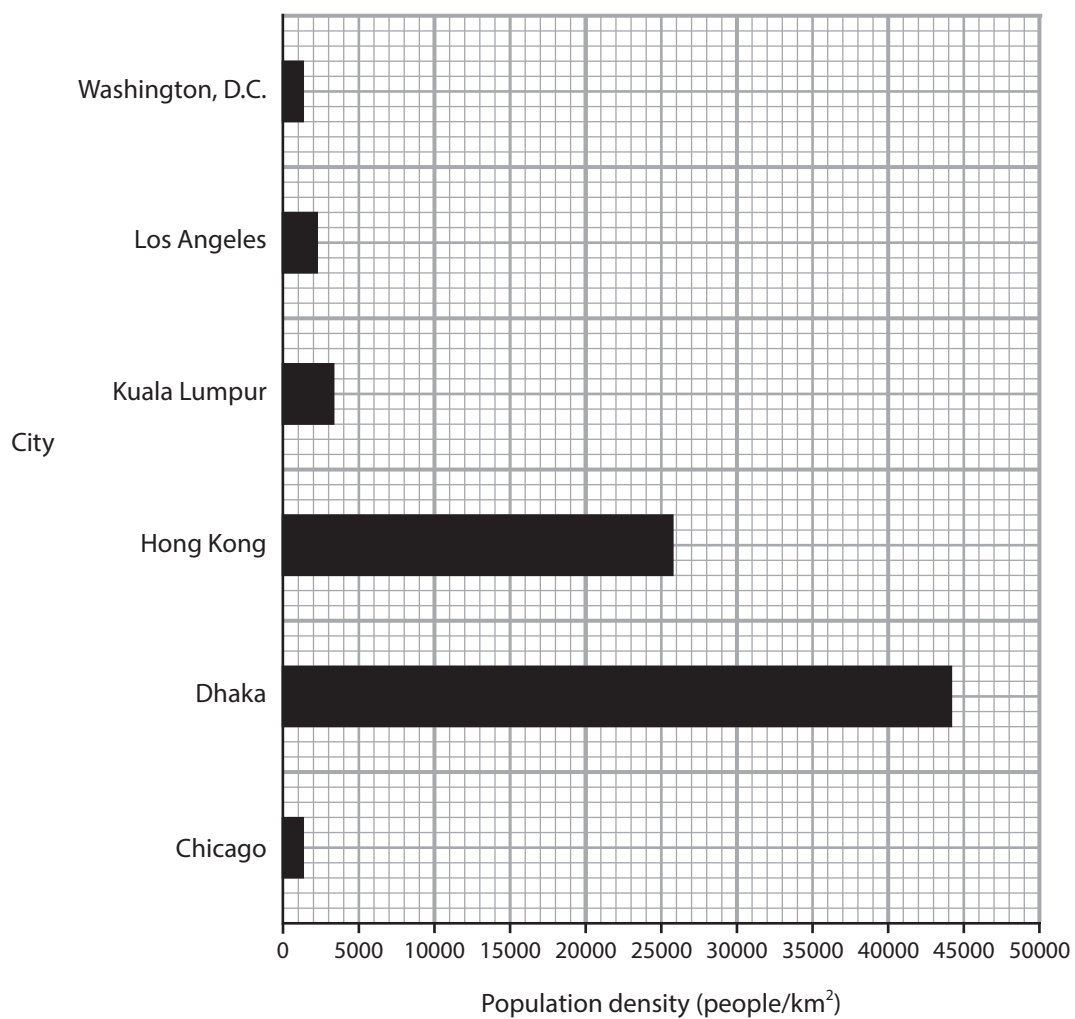
Figure 2

Population density for six cities (number of people/km^2)

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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