Candidate surname | Other names

**Pearson Edexcel**
International
Advanced Level

Centre Number | Candidate Number

# Thursday 14 January 2021

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.

*Turn over* ▶

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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 **two** threats to coastal ecosystem services from the coastal development shown in Figure 1.

**(2)**

1.........................................................................................................................................................................................................

2.........................................................................................................................................................................................................

(ii) Explain **one** way that ecosystems provide coastal protection.

**(2)**

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(b) Examine how contrasting approaches to coastal management can lead to conflicts between different players.

(8)

**(Total for Question 1 = 12 marks)**

**URBAN PROBLEMS, PLANNING AND REGENERATION**

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

2   Study Figure 2 in the Resource Booklet.

(a) (i)   Identify **two** possible housing problems in this urban area.

(2)

1...................................................................................................................................................................................................................................................................

2...................................................................................................................................................................................................................................................................

(ii)  Explain **one** negative impact of informal employment in developing
world cities.

(2)

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(b) Assess the importance of different players in the success of urban regeneration.

(8)

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**(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 the course.

Use this experience to answer Question 3.

State the title or question of your geographical investigation:

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(a) Explain **two** ways secondary information sources helped you to identify your title or question.

(4)

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(b) Explain why you selected **one** presentation method to present your fieldwork data.

(2)

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(c) Explain the different techniques you used to analyse your fieldwork data.

(6)

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(d) Evaluate the success of both the design and methodology 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 ⊠.**

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

**Investigating Crowded Coasts**

4 Study Figure 3a in the Resource Booklet.

> A group of students studied a sand dune as part of a wider study into coastal ecosystems.
>
> They started their investigation by researching different smartphone apps, Figure 3a, that could help them collect primary fieldwork data.

(a) (i) Identify the **two** fieldwork apps and their correct use.

(2)

| | | |
|---|---|---|
| ⊠ | **A** | Clinometer: measuring slope or gradient |
| ⊠ | **B** | Clinometer: measuring distance |
| ⊠ | **C** | Sound meter: measuring noise |
| ⊠ | **D** | Sound meter: measuring height |
| ⊠ | **E** | Quadrat: measuring plant cover |
| ⊠ | **F** | Quadrat: measuring plant type |

(ii) Explain **one** disadvantage of using smartphone apps to collect fieldwork data.

(2)

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(b) Study Figure 3b in the Resource Booklet.

> The students also visited a nearby estuary and completed a conflict matrix.

(i) Calculate the **range** for the recreational boat use category.

**(1)**

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(ii) Identify the **modal class** for the university research category.

**(1)**

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(iii) Calculate the **median** for the recreational boat use category.

**(2)**

Show ALL your working.

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(c) Explain **two** problems with the conflict matrix that the students used, shown in Figure 3b.

(4)

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**(Total for Question 4 = 12 marks)**

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

**Investigating Urban Problems, Planning and Regeneration**

**5** Study Figure 4a in the Resource Booklet.

> A group of students studied local transport infrastructure as part of a wider study into transport issues in a city.
>
> They started their investigation by researching different smartphone apps, Figure 4a, that could help them collect primary fieldwork data.

(a) (i) Identify the **two** fieldwork apps and their use.

(2)

| | | |
|---|---|---|
| ⊠ | **A** | Camera: recording view and direction |
| ⊠ | **B** | Camera: recording pollution |
| ⊠ | **C** | Decibel meter: recording noise |
| ⊠ | **D** | Decibel meter: recording height |
| ⊠ | **E** | Quality survey: recording the amount of litter |
| ⊠ | **F** | Quality survey: recording the direction of light |

(ii) Explain **one** disadvantage of using smartphone apps to collect fieldwork data.

(2)

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(b) Study Figure 4b in the Resource Booklet.

> The students also visited a nearby town and completed a transport conflict matrix.

(i) Calculate the **range** for the pedestrian access category.

**(1)**

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(ii) Identify the **modal class** for the university research category.

**(1)**

.................................................................

(iii) Calculate the **median** for the pedestrian access category.

**(2)**

Show ALL your working.

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(c) Explain **two** problems with the conflict matrix used by the students, shown in Figure 4b.

(4)

1 .................................................................................................................................................................................................

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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**

# Thursday 14 January 2021

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

# Geography

**International Advanced Subsidiary**
**Paper 2: Geographical Investigations**

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

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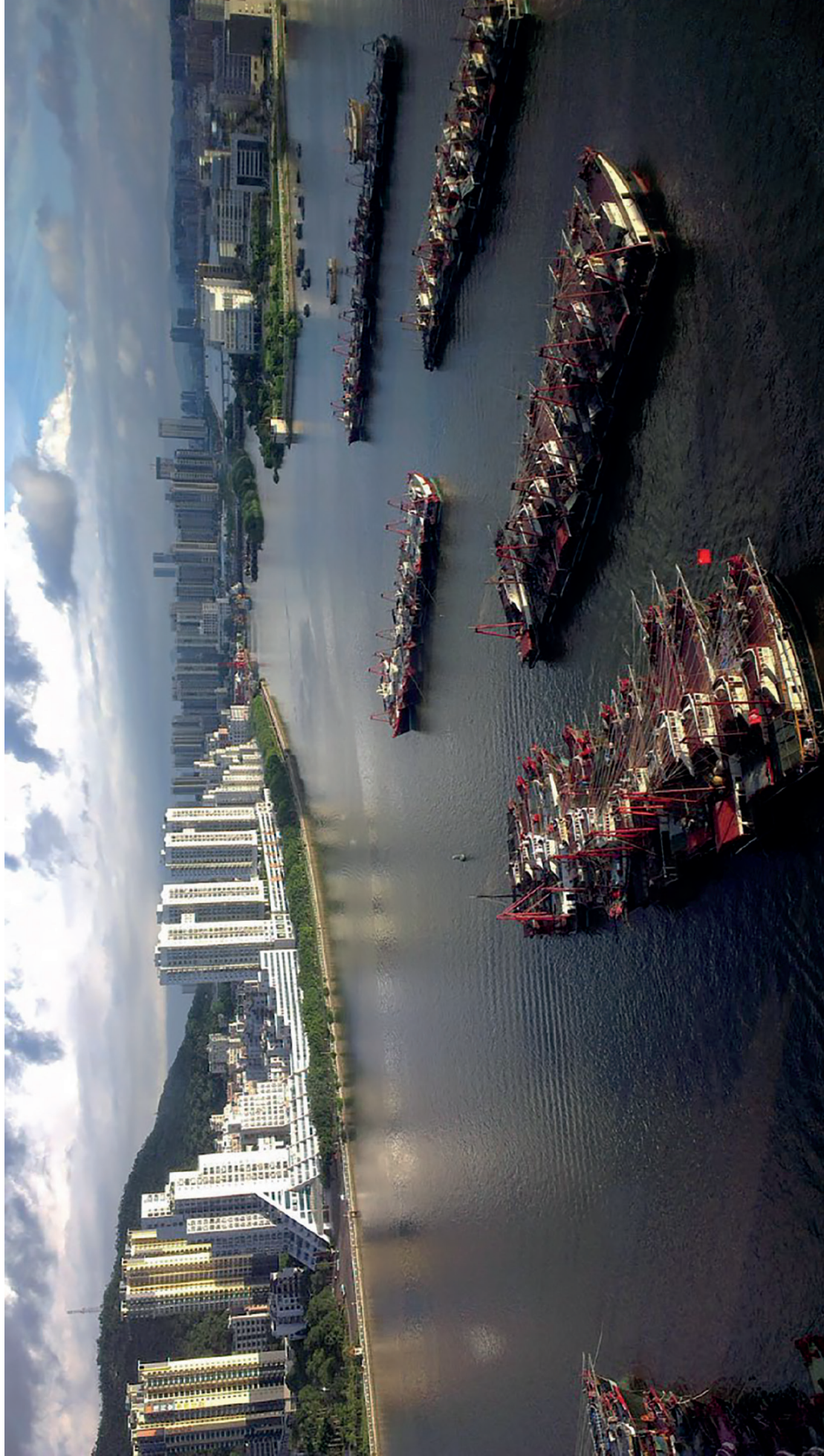
**Figure 1**

**Coastal development in Macau, East Asia**

**Figure 2**

**An urban area in central Hong Kong, East Asia**
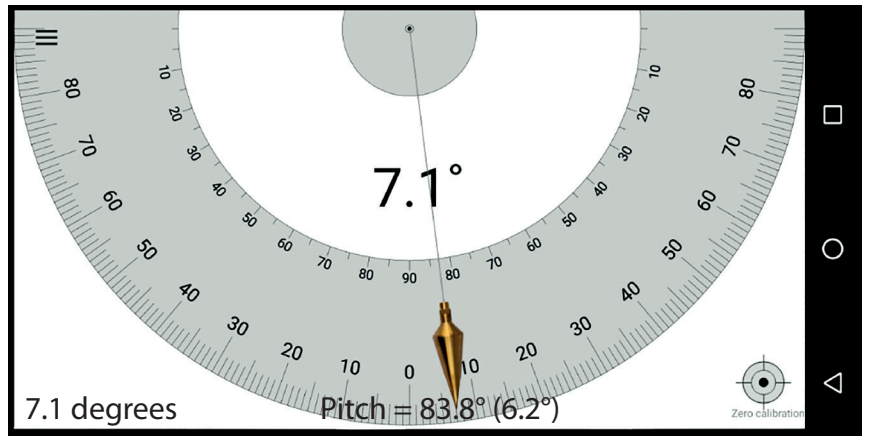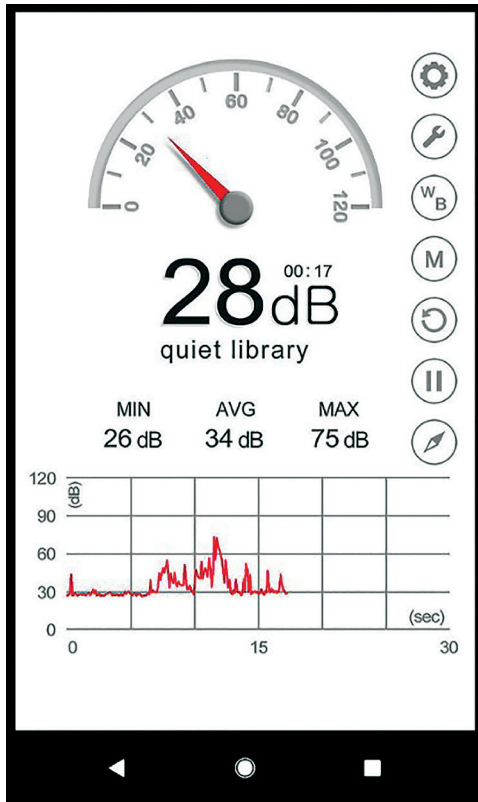
**Figure 3a**

**Smartphone apps for collecting fieldwork data**

| Category | Local small-scale fishing | Commercial fish farming (aquaculture) | Cruise ships | Waterfront housing development | Recreational boat use | Lorry and HGV drivers | University research |
|---|---|---|---|---|---|---|---|
| Local small-scale fishing | | 8 | 7 | 0 | 5 | 6 | −6 |
| Commercial fish farming (aquaculture) | 8 | | 0 | 6 | 9 | 38 | −8 |
| Cruise ships | 7 | 0 | | −5 | 4 | 0 | −2 |
| Waterfront housing development | 0 | 6 | −5 | | 7 | 3 | −19 |
| Recreational boat use | 5 | 9 | 4 | 7 | | 0 | 0 |
| Lorry and HGV drivers | 6 | 38 | 0 | 3 | 0 | | −2 |
| University research | −6 | −8 | −2 | −9 | 0 | −2 | |

Positive impact 1 to 9     6

Negative impact −1 to −9     −6

Limited impact / neutral 0

**Figure 3b**

**A conflict matrix for an estuary location completed by students**
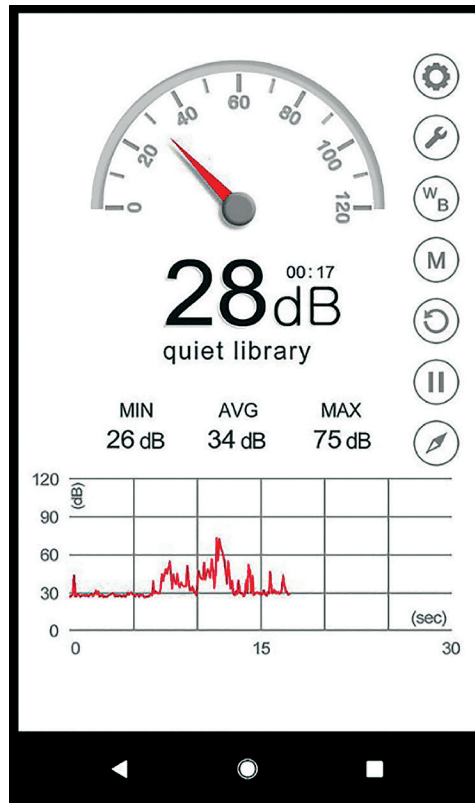
**Figure 4a**

**Smartphone apps for collecting fieldwork data**

| Category | Category | Out-of-town shopping | Car drivers | Lorry and HGV drivers | Construction traffic | Pedestrian access | Recreational boat use | University research |
|---|---|---|---|---|---|---|---|---|
| Out-of-town shopping | | | 8 | 7 | 0 | 5 | 6 | −6 |
| Car drivers | | 8 | | 0 | 6 | 9 | 38 | −8 |
| Lorry and HGV drivers | | 7 | 0 | | −5 | 4 | 0 | −2 |
| Construction traffic | | 0 | 6 | −5 | | 7 | 3 | −19 |
| Pedestrian access | | 5 | 9 | 4 | 7 | | 0 | 0 |
| Recreational boat use | | 6 | 38 | 0 | 3 | 0 | | −2 |
| University research | | −6 | −8 | −2 | −9 | 0 | −2 | |

Positive impact 1 to 9  →  6
Negative impact −1 to −9  →  −6
Limited impact / neutral 0  →  (blank)
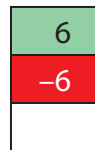
**Figure 4b**

**A conflict matrix for transport issues in a city completed by students**

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