GradeMax

Please check the examination details below before entering your candidate information

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.

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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)

(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:

.....

.....

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

(4)

1 .....

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2 .....

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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)

(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)

.....

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

(1)

.....

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

(2)

Show ALL your working.

.....

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

(4)

1 .....

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2 .....

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(Total for Question 4 = 12 marks)

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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)

.....

(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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2 .....

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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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GradeMax

Pearson Edexcel International Advanced Level

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Geography

International Advanced Subsidiary
Paper 2: Geographical Investigations

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

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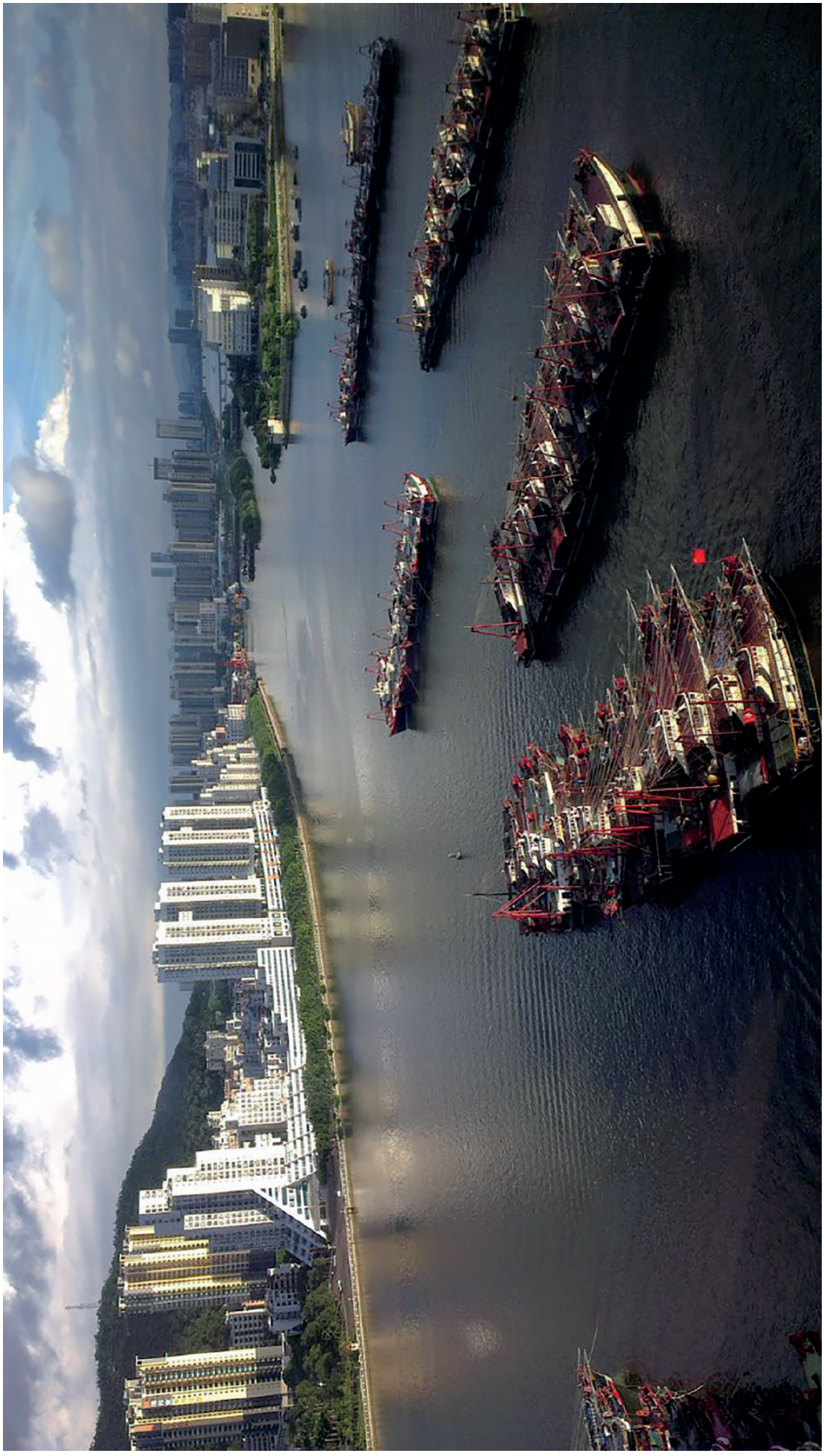

Figure 1

Coastal development in Macau, East Asia



Figure 2

An urban area in central Hong Kong, East Asia

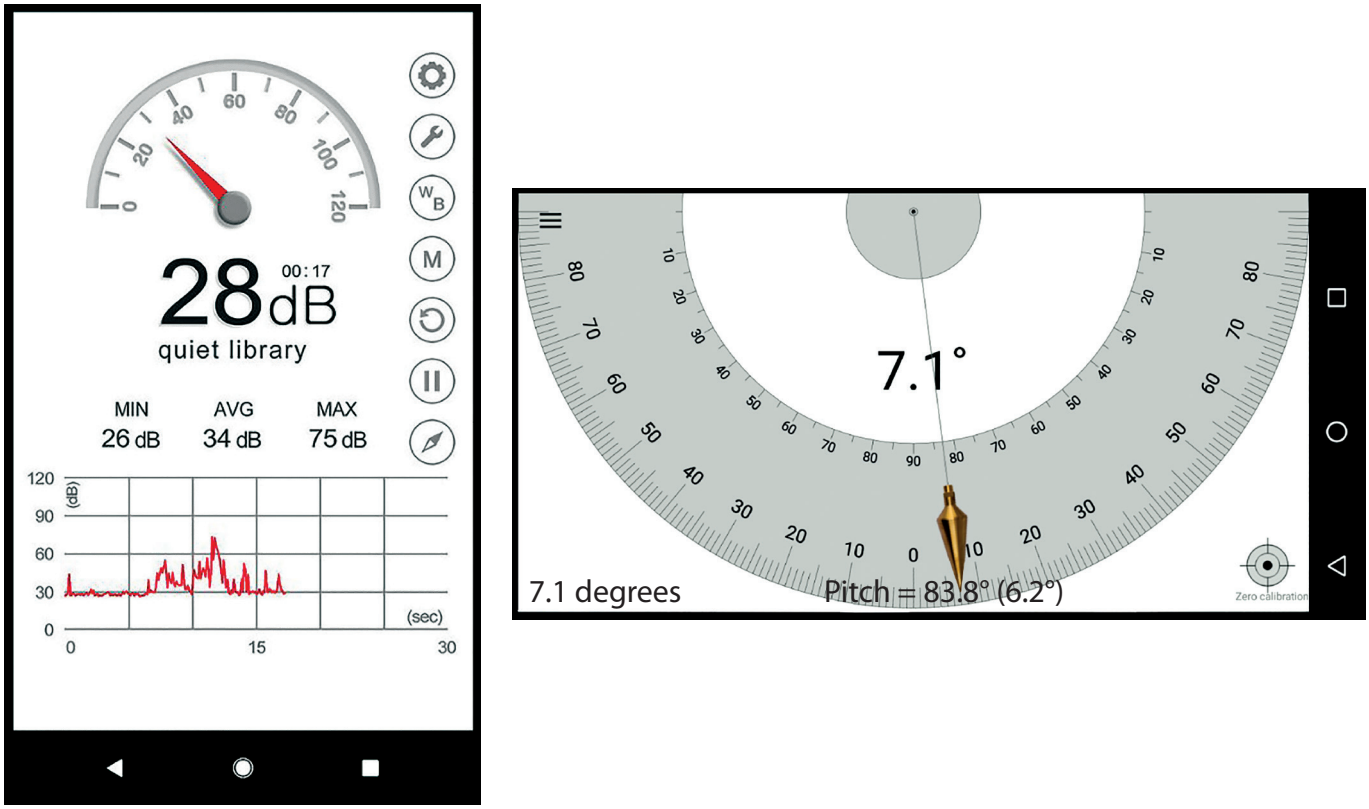

Figure 3a

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

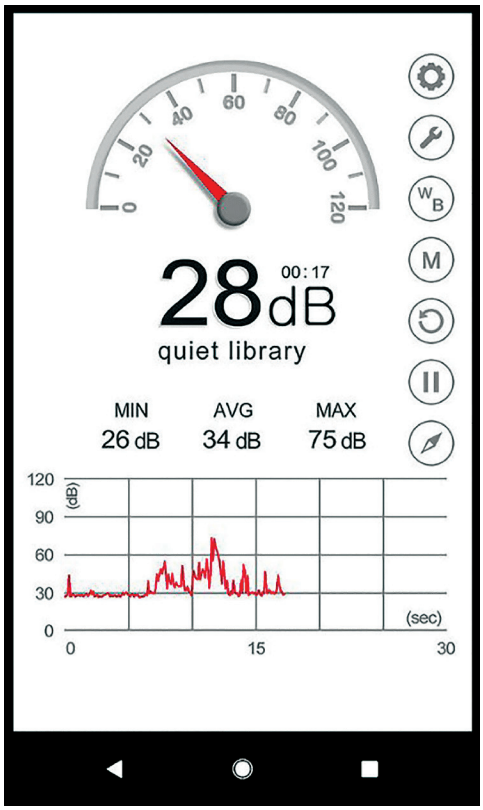



Figure 4a

Smartphone apps for collecting fieldwork data

Category	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	

Figure 4b

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

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