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

Wednesday 9 January 2019

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 landforms A and B on Figure 1.

(2)

A .....

B .....

(ii) Explain **one** weathering process that affects the landforms shown in Figure 1.

(2)

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(b) Examine the success of sustainable policies to manage coastal erosion.

(8)

(Total for Question 1 = 12 marks)

URBAN PROBLEMS, PLANNING AND REGENERATION

2 Study Figure 2 in the Resource Booklet.

(a) (i) Identify the city with

(2)

pollution levels always above the World Health Organisation (WHO) recommended maximum

.....

the largest daily variation in pollution levels.

.....

(ii) Explain **one** planning solution which aims to reduce air pollution in cities.

(2)

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(b) Evaluate the impacts on people and the urban environment of living in slum housing in developing world cities.

(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 why this title or question was suitable for your geographical investigation.

(4)

(b) Explain **one** way that secondary research was used in your geographical investigation.

(2)

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(c) Explain how you collected the primary data for your geographical investigation.

(6)

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(d) Evaluate the advantages and disadvantages of the presentation and analysis methods used in your geographical investigation.

(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 Study Figure 3a in the Resource Booklet.

A group of students studied a mangrove forest as part of a wider study of coastal ecosystems.

They started their investigation by gathering research information (Figure 3a) about the mangrove ecosystem.

(a) (i) Describe how they might use the information in Figure 3a to help plan their geographical investigation.

(4)

(ii) Explain **one** disadvantage of using social media as a source of information for this geographical investigation.

(2)

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

Another group of students carried out a vegetation transect to record the changes across a salt marsh.

(i) Calculate the range for Sea Purslane.

(1)

.....

(ii) Calculate the mean percentage cover of plants at site 7.

(1)

.....

(iii) Identify the type of sampling the students used.

(1)

☒	**A** Systematic
☒	**B** Stratified
☒	**C** Random
☒	**D** Regular

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

Explain **one** advantage of presenting their data using this technique.

(3)

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(Total for Question 4 = 12 marks)

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 Urban Problems, Planning and Regeneration

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

5 Study Figure 4a in the Resource Booklet.

A group of students studied local traffic as part of a wider study into the impacts of transport problems.

They started their investigation by gathering research information (Figure 4a) about transport and traffic.

(a) (i) Describe how they might use the information in Figure 4a to help plan their geographical investigation.

(4)

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(ii) Explain **one** disadvantage of using social media as a source of information for this geographical investigation.

(2)

.....

.....

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.....

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

Another group of students carried out a traffic transect to record the changes across a city.

(i) Calculate the range for Light Goods Vehicle (LGV).

(1)

.....

(ii) Calculate the mean vehicle count at site 7.

(1)

.....

(iii) Identify the type of sampling the students used.

(1)

☒	**A** Systematic
☒	**B** Stratified
☒	**C** Random
☒	**D** Regular

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

Explain **one** advantage of presenting their data using this technique.

(3)

(Total for Question 5 = 12 marks)

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

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

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Figure 1

A coastal landscape

World Health Organisation (WHO)
recommended maximum pollution level

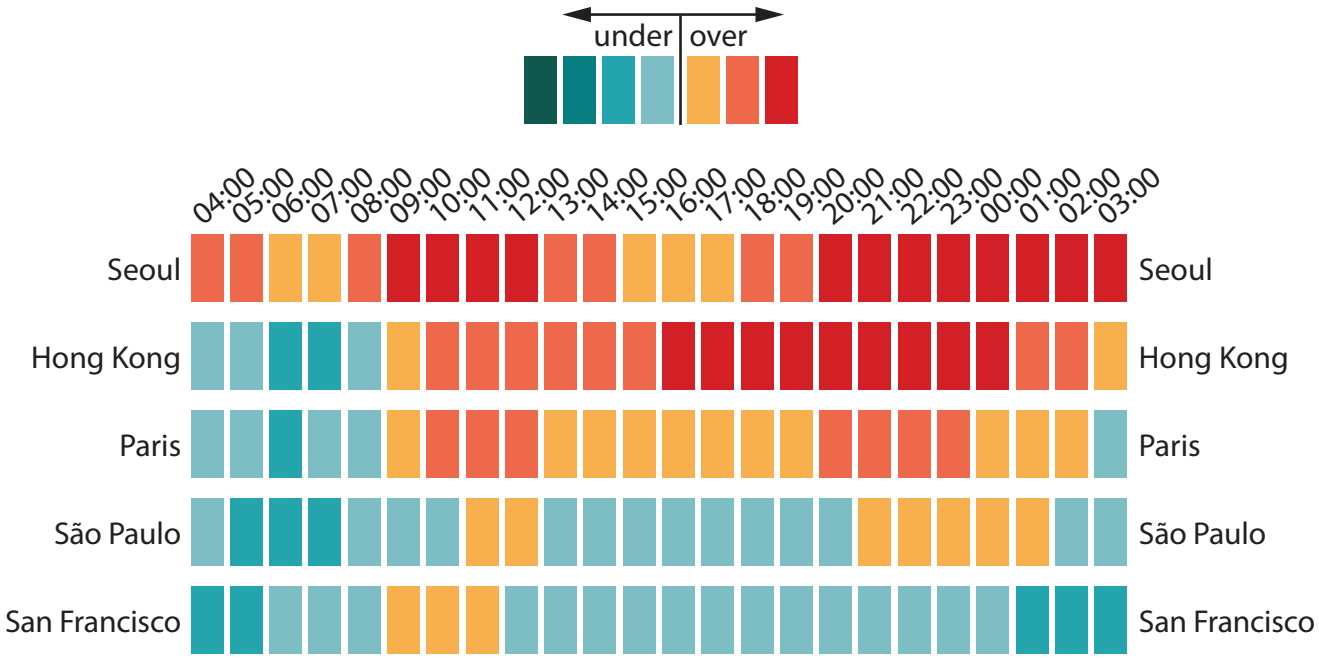

Figure 2

Nitrogen dioxide air pollution levels for a range of cities



Figure 3a

Google Earth screenshot of a mangrove forest

Site number	1	2	3	4	5	6	7	8	9	10
Distance along transect (m)	0	3	4	5	7	8	14	20	33	57
Plant name (% of total plant cover)										
Green Gutweed	0	20	10	5	30	25	0	0	0	0
Sea Purslane	0	80	80	70	25	5	20	20	20	0
Cordgrass	0	0	5	0	5	15	10	10	10	0
Sea Arrow Grass	0	0	0	0	0	0	0	30	45	10
Salt Marsh Grass	0	0	5	25	40	55	70	20	15	10
Sea Plantain	0	0	0	0	0	0	0	20	10	20
Red Fescue	0	0	0	0	0	0	0	0	0	60

Figure 3b

Fieldwork results from a salt marsh transect (% cover)

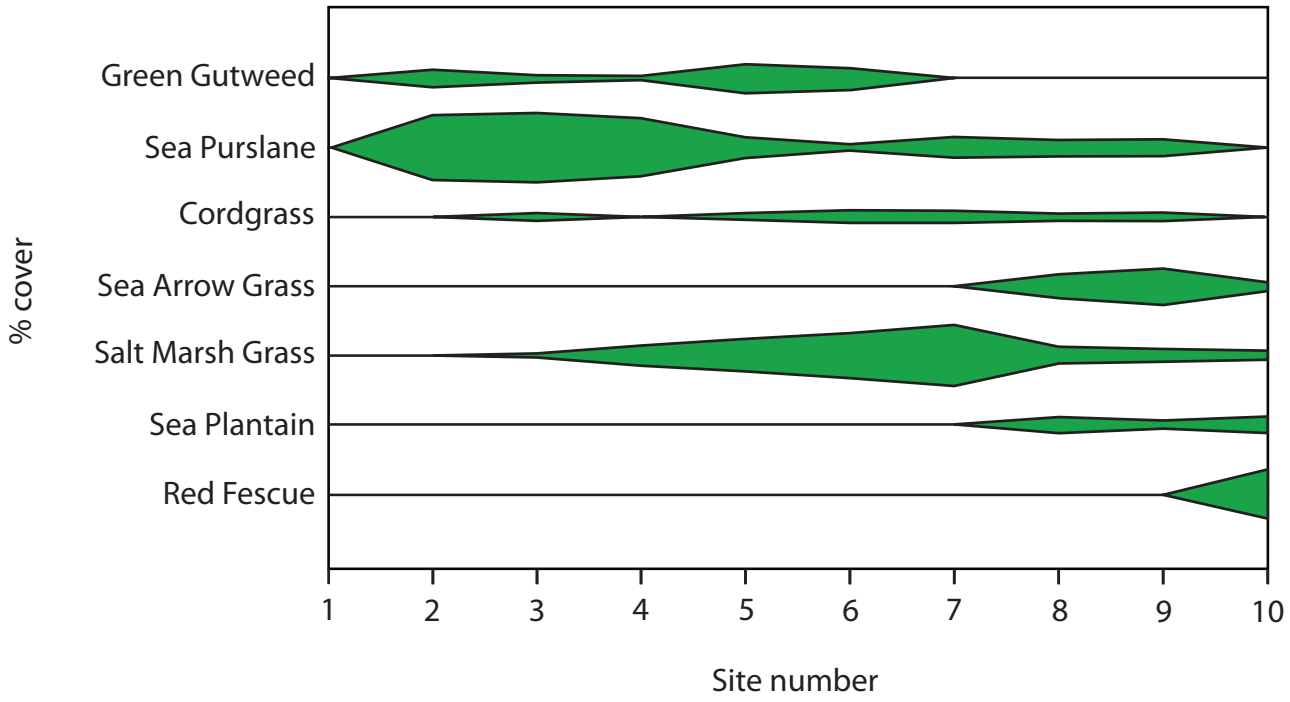

Figure 3c

A kite diagram showing the results of primary fieldwork data

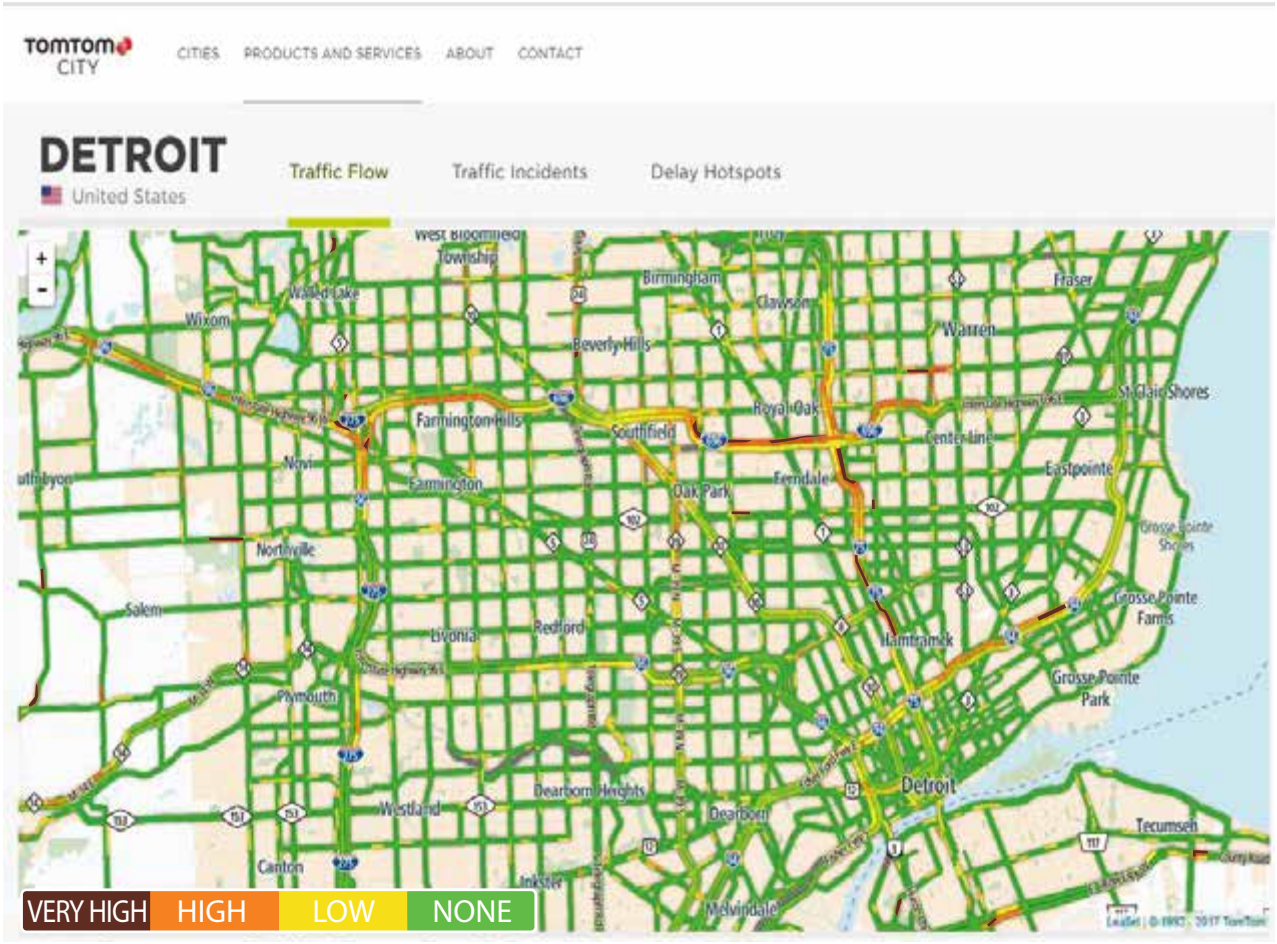

Figure 4a

A screenshot of a traffic flow map of the city

Site number	1	2	3	4	5	6	7	8	9	10
Distance along transect (m)	0	300	400	500	700	800	1400	2000	3300	5700
Vehicle and transport type										
Heavy Goods Vehicle (HGV)	15	20	20	20	55	25	0	0	0	0
Light Goods Vehicle (LGV)	0	100	95	95	95	65	25	20	0	0
Cars	75	95	115	220	45	20	15	10	45	60
Minibus	0	0	0	0	0	0	0	5	10	0
Taxis	0	10	10	25	30	75	75	55	0	0
Motorcycles	0	0	5	15	0	0	0	10	5	0
Cycling	0	0	0	0	0	0	0	25	45	50

Figure 4b

Fieldwork results from a vehicles and transport survey

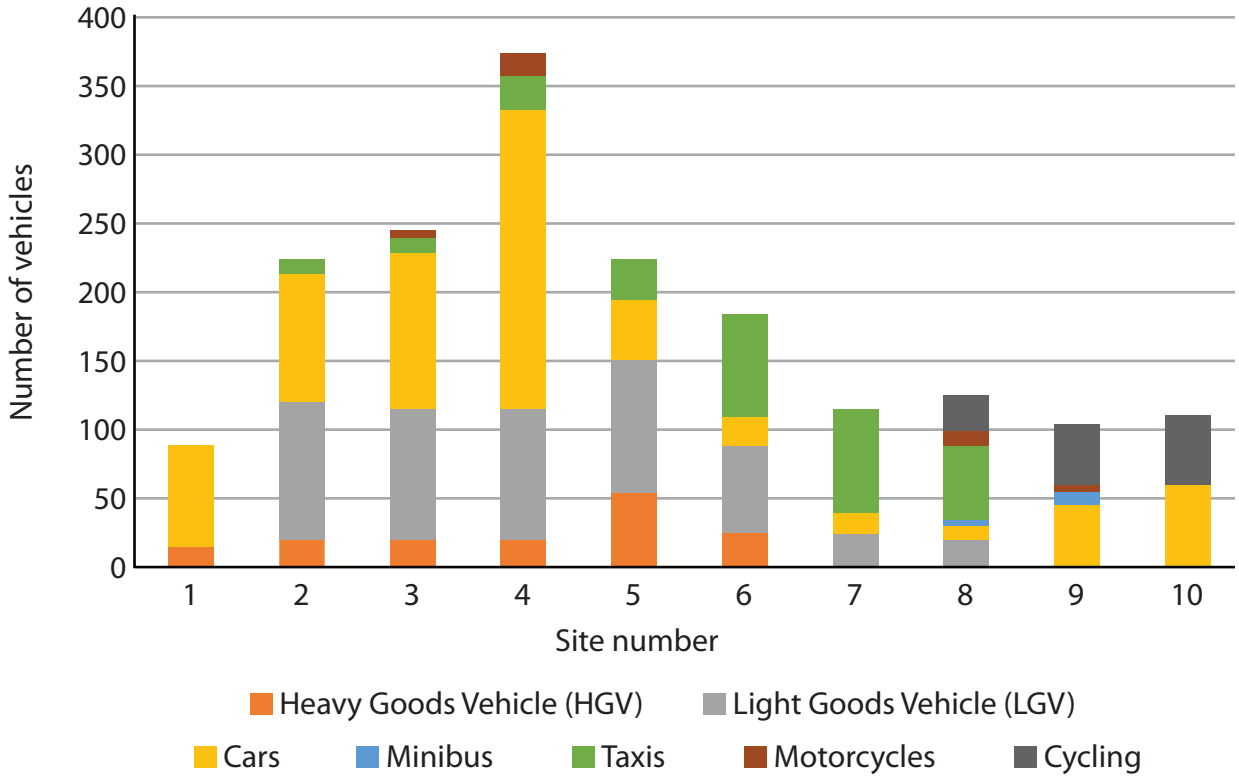

Figure 4c

A compound bar chart showing the results of primary fieldwork data

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Figure 1 – Source from: © david-holmes-geography.co.uk

Figure 3a – Source from: Imagery ©2017 DitialGlobe, Map data ©2017 Google

Figure 4a – Source from: © 3rd January 2018 TomTom. All rights reserved.