

# Meet the Exam Paper

Write your name here	
Surname	Other names
<b>Edexcel International GCSE</b>	
Centre Number	Candidate Number
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<b>Geography</b>	
Sample Assessment Material <b>Time: 3 hours</b>	Paper Reference <b>4GE0/01</b>
<b>You must have:</b> Calculator	Total Marks

To answer 7 of the 13 questions. About 20 minutes per question with 20 minutes reading time left over for the whole paper.

## 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 **seven** questions, **two** questions from Section A, **two** questions from Section B, **two** questions from Section C and **one** question from Section D.
- Answer the questions in the spaces provided – *there may be more space than you need.*

Don't do all 13 questions!

## Information

- The total mark for this paper is 180.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
- The following abbreviations are used: LIC – Low Income Country, HIC – High Income Country, NIC – Newly Industrialised Country and CBD – Central Business District.

About 1 minute a mark!

## Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Remember that clear English and careful presentation of your answers is important.
- Check your answers if you have time at the end.

Definitions applying to the whole paper.

Turn over ►

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PEARSON

Make sure you only do two questions!

## SECTION A: The natural environment

Answer TWO questions from this section

Indicate which question you are answering by marking a cross in the box ☐. If you change your mind, put a line through the box ☒ and then indicate your new question with a cross ☐.

If you answer Question 1 put a cross in the box ☐

Remember to put a cross in the box if you are doing the question!

### 1 River environments

- (a) Study Figure 1 which shows the distribution of rainfall in Spain and plans to transfer water around the country.

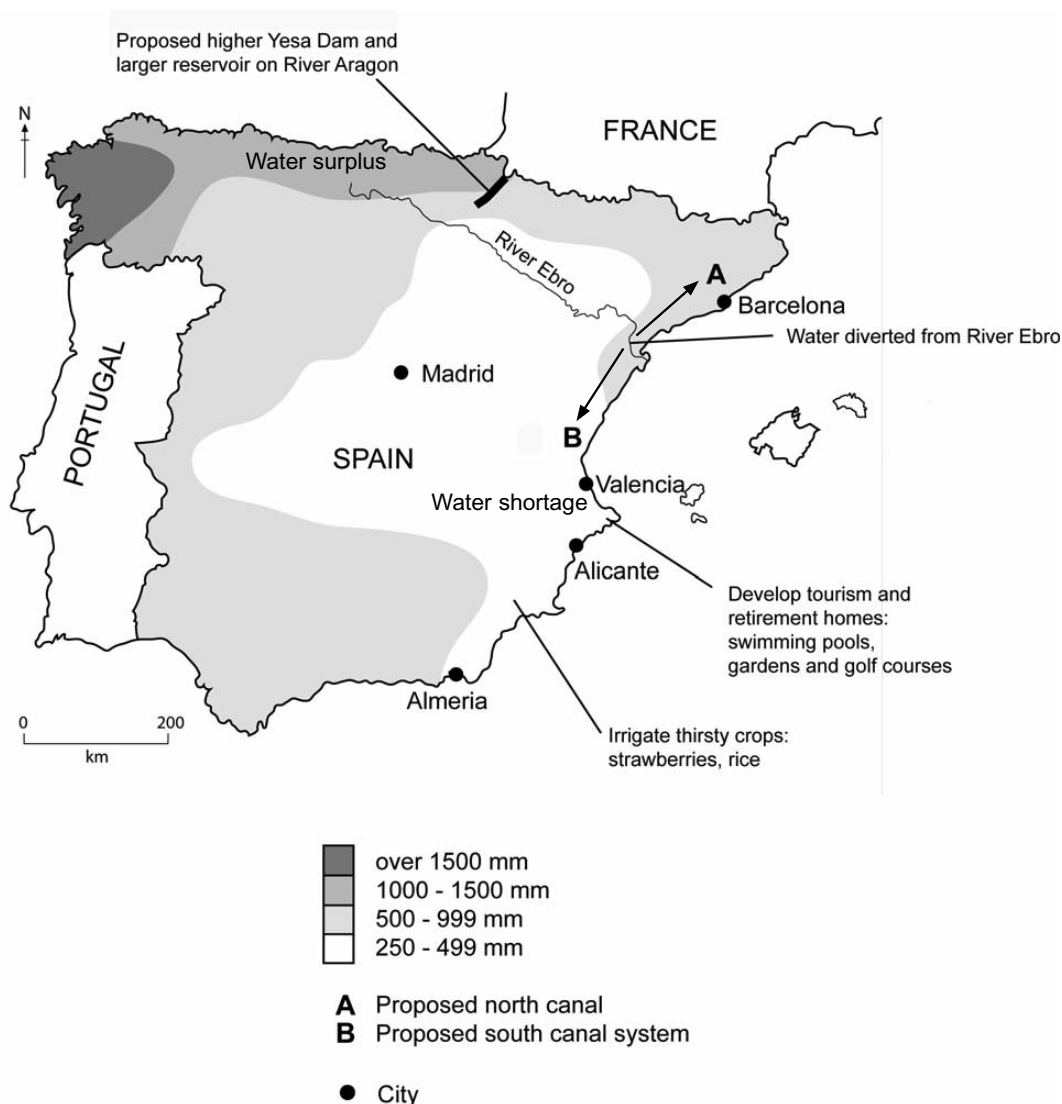


Figure 1

For the questions where you have to put a cross in the box, if you change your mind about an answer, put a line through the box and mark your new answer with a cross.

- (i) Put a cross ☐ in the box next to the correct answer.

The wettest area of Spain is in the

(1)

- ☐ **A** centre  
☐ **B** east  
☐ **C** north west  
☐ **D** south east

- (ii) In which direction does the River Ebro flow?

(1)

- (iii) What is the purpose of Spain's plan to transfer water around the country?

(2)

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Try to stick to  
the 20 minutes  
per question!

(b) (i) What is a flood plain?

(2)

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(ii) Levees occur along some rivers.  
Describe how levees are formed. A labelled diagram may help your answer.

(4)

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(c) Explain the steps involved in supplying clean water to users.

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(9)

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the 1990s, the number of people in the United States who are 65 years of age or older has increased by 50 percent, and the number of people 75 years of age or older has increased by 100 percent. The number of people 85 years of age or older has increased by 200 percent. The number of people 90 years of age or older has increased by 400 percent. The number of people 95 years of age or older has increased by 800 percent. The number of people 100 years of age or older has increased by 1,600 percent. The number of people 105 years of age or older has increased by 3,200 percent. The number of people 110 years of age or older has increased by 6,400 percent. The number of people 115 years of age or older has increased by 12,800 percent. The number of people 120 years of age or older has increased by 25,600 percent. The number of people 125 years of age or older has increased by 51,200 percent. The number of people 130 years of age or older has increased by 102,400 percent. The number of people 135 years of age or older has increased by 204,800 percent. The number of people 140 years of age or older has increased by 409,600 percent. The number of people 145 years of age or older has increased by 819,200 percent. The number of people 150 years of age or older has increased by 1,638,400 percent. The number of people 155 years of age or older has increased by 3,276,800 percent. The number of people 160 years of age or older has increased by 6,553,600 percent. The number of people 165 years of age or older has increased by 13,107,200 percent. The number of people 170 years of age or older has increased by 26,214,400 percent. The number of people 175 years of age or older has increased by 52,428,800 percent. The number of people 180 years of age or older has increased by 104,857,600 percent. The number of people 185 years of age or older has increased by 209,715,200 percent. The number of people 190 years of age or older has increased by 419,430,400 percent. The number of people 195 years of age or older has increased by 838,860,800 percent. The number of people 200 years of age or older has increased by 1,677,721,600 percent. The number of people 205 years of age or older has increased by 3,355,443,200 percent. The number of people 210 years of age or older has increased by 6,710,886,400 percent. The number of people 215 years of age or older has increased by 13,421,772,800 percent. The number of people 220 years of age or older has increased by 26,843,545,600 percent. The number of people 225 years of age or older has increased by 53,687,091,200 percent. The number of people 230 years of age or older has increased by 107,374,182,400 percent. The number of people 235 years of age or older has increased by 214,748,364,800 percent. The number of people 240 years of age or older has increased by 429,496,729,600 percent. The number of people 245 years of age or older has increased by 858,993,459,200 percent. The number of people 250 years of age or older has increased by 1,717,986,918,400 percent. The number of people 255 years of age or older has increased by 3,435,973,836,800 percent. The number of people 260 years of age or older has increased by 6,871,947,673,600 percent. The number of people 265 years of age or older has increased by 13,743,895,347,200 percent. The number of people 270 years of age or older has increased by 27,487,790,694,400 percent. The number of people 275 years of age or older has increased by 54,975,581,388,800 percent. The number of people 280 years of age or older has increased by 109,951,162,777,600 percent. The number of people 285 years of age or older has increased by 219,902,325,555,200 percent. The number of people 290 years of age or older has increased by 439,804,651,110,400 percent. The number of people 295 years of age or older has increased by 879,609,302,220,800 percent. The number of people 300 years of age or older has increased by 1,759,218,604,441,600 percent. The number of people 305 years of age or older has increased by 3,518,437,208,883,200 percent. The number of people 310 years of age or older has increased by 7,036,874,417,766,400 percent. The number of people 315 years of age or older has increased by 14,073,748,835,532,800 percent. The number of people 320 years of age or older has increased by 28,147,497,671,065,600 percent. The number of people 325 years of age or older has increased by 56,294,995,342,131,200 percent. The number of people 330 years of age or older has increased by 112,589,990,684,262,400 percent. The number of people 335 years of age or older has increased by 225,179,981,368,524,800 percent. The number of people 340 years of age or older has increased by 450,359,962,737,049,600 percent. The number of people 345 years of age or older has increased by 900,719,925,474,099,200 percent. The number of people 350 years of age or older has increased by 1,801,439,850,948,198,400 percent. The number of people 355 years of age or older has increased by 3,602,879,701,896,396,800 percent. The number of people 360 years of age or older has increased by 7,205,759,403,792,793,600 percent. The number of people 365 years of age or older has increased by 14,411,518,807,585,587,200 percent. The number of people 370 years of age or older has increased by 28,823,037,615,171,174,400 percent. The number of people 375 years of age or older has increased by 57,646,075,230,342,348,800 percent. The number of people 380 years of age or older has increased by 115,292,150,460,684,697,600 percent. The number of people 385 years of age or older has increased by 230,584,300,921,369,395,200 percent. The number of people 390 years of age or older has increased by 461,168,601,842,738,790,400 percent. The number of people 395 years of age or older has increased by 922,337,203,685,477,580,800 percent. The number of people 400 years of age or older has increased by 1,844,674,407,370,955,161,600 percent. The number of people 405 years of age or older has increased by 3,689,348,814,741,910,323,200 percent. The number of people 410 years of age or older has increased by 7,378,697,629,483,820,646,400 percent. The number of people 415 years of age or older has increased by 14,757,395,258,967,641,292,800 percent. The number of people 420 years of age or older has increased by 29,514,790,517,935,282,585,600 percent. The number of people 425 years of age or older has increased by 59,029,581,035,870,565,171,200 percent. The number of people 430 years of age or older has increased by 118,059,162,071,741,130,342,400 percent. The number of people 435 years of age or older has increased by 236,118,324,143,482,260,684,800 percent. The number of people 440 years of age or older has increased by 472,236,648,286,964,521,369,600 percent. The number of people 445 years of age or older has increased by 944,473,296,573,929,042,739,200 percent. The number of people 450 years of age or older has increased by 1,888,946,593,147,858,085,478,400 percent. The number of people 455 years of age or older has increased by 3,777,893,186,295,716,170,956,800 percent. The number of people 460 years of age or older has increased by 7,555,786,372,591,432,341,913,600 percent. The number of people 465 years of age or older has increased by 15,111,572,745,182,864,683,827,200 percent. The number of people 470 years of age or older has increased by 30,223,145,490,365,729,367,654,400 percent. The number of people 475 years of age or older has increased by 60,446,290,980,731,458,735,308,800 percent. The number of people 480 years of age or older has increased by 120,892,581,961,462,917,470,617,600 percent. The number of people 485 years of age or older has increased by 241,785,163,922,925,834,941,235,200 percent. The number of people 490 years of age or older has increased by 483,570,327,845,851,669,882,470,400 percent. The number of people 495 years of age or older has increased by 967,140,655,691,703,339,764,940,800 percent. The number of people 500 years of age or older has increased by 1,934,281,311,383,406,679,529,881,600 percent. The number of people 505 years of age or older has increased by 3,868,562,622,766,813,359,059,763,200 percent. The number of people 510 years of age or older has increased by 7,737,125,245,533,626,718,119,526,400 percent. The number of people 515 years of age or older has increased by 15,474,250,491,067,253,436,239,052,800 percent. The number of people 520 years of age or older has increased by 30,948,500,982,134,506,872,478,105,600 percent. The number of people 525 years of age or older has increased by 61,897,001,964,269,013,744,956,211,200 percent. The number of people 530 years of age or older has increased by 123,794,003,928,538,027,489,912,422,400 percent. The number of people 535 years of age or older has increased by 247,588,007,857,076,054,979,824,844,800 percent. The number of people 540 years of age or older has increased by 495,176,015,714,152,109,959,649,689,600 percent. The number of people 545 years of age or older has increased by 990,352,031,428,304,219,919,299,379,200 percent. The number of people 550 years of age or older has increased by 1,980,704,062,856,608,439,838,598,758,400 percent. The number of people 555 years of age or older has increased by 3,961,408,125,713,216,879,677,197,516,800 percent. The number of people 560 years of age or older has increased by 7,922,816,251,426,433,759,354,395,033,600 percent. The number of people 565 years of age or older has increased by 15,845,632,502,852,867,518,708,790,067,200 percent. The number of people 570 years

If you answer Question 2 put a cross in the box ☐

Remember to put a cross in the box if you are doing the question!

## 2 Coastal environments

(a) Study Figures 2a and 2b which show a cliff coastline undergoing change.

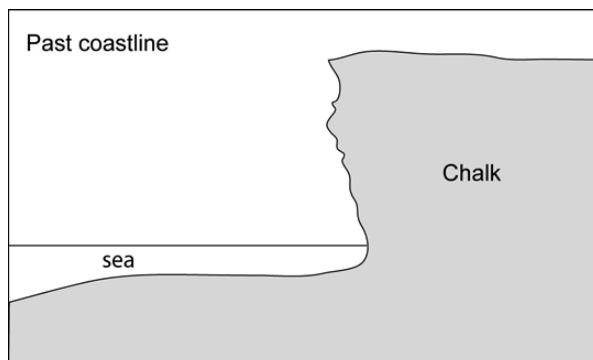


Figure 2a

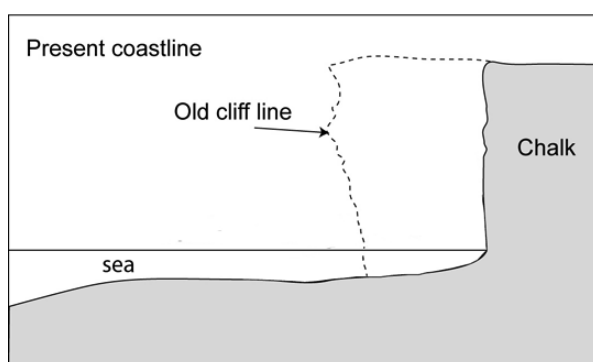


Figure 2b

(i) State **one** way in which the coastline has changed as shown in Figure 2b.

(1)

(ii) Label the following features on Figure 2b:

1. cliff face
2. wave-cut platform

(2)

(iii) Name **one** process that causes cliffs to change.

(1)

(b) (i) What is a beach?

(2)

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(ii) Spits are formed along some coastlines.

Describe how spits are formed. A labelled diagram may help your answer.

(4)

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(c) Explain why people hold different views about the use of hard engineering for coastal protection.

(6)

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(d) Discuss ways in which the threats to a named coastal eco-system are being managed.

(9)

Named coastal ecosystem .....

Be clear and concise. Don't waffle. There are enough lines for 9 marks!

(Total for Question 2 = 25 marks)

If you answer Question 3 put a cross in the box ☐.

Remember to put a cross in the box if you are doing the question!

### 3 Hazardous environments

(a) Study Figure 3 which shows a volcanic eruption.



Figure 3

(i) Give one piece of evidence the volcano is active.

(1)

(ii) Give **three** reasons why some people choose to live close to volcanoes.

(3)

- 1 .....
- 2 .....
- 3 .....

(b) (i) What is a tectonic plate?

(2)

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(ii) Volcanoes are formed at plate boundaries.  
Describe how volcanoes are formed at constructive plate boundaries.  
A labelled diagram may help your answer.

(4)

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[illegible][illegible]

Examples will help your answer.

**(Total for Question 3 = 25 marks)**

**TOTAL FOR SECTION A = 50 MARKS**

## SECTION B: People and their environments

Answer TWO questions from this section

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

Remember to answer only two questions here!

Remember to put a cross in the box if you are doing the question!

### 4 Economic activity and energy

(a) Study Figure 4 which shows a new manufacturing area.



Figure 4

- (i) To which economic sector do the activities in Figure 4 belong? Put a cross in the box next to the correct answer.

(1)

- ☐ A primary
- ☐ B secondary
- ☐ C tertiary
- ☐ D quaternary

- (ii) Give **three** factors that make the location, shown in figure 4, ideal for manufacturing industry.

(3)

- 1 .....
- 2 .....
- 3 .....

(b) (i) Define the term 'hi-tech industry'.

(2)

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(ii) Outline **two** characteristics of informal employment.

(4)

1 .....

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(c) Explain the advantages and disadvantages of renewable sources of energy.

(6)

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(9)

Named area .....

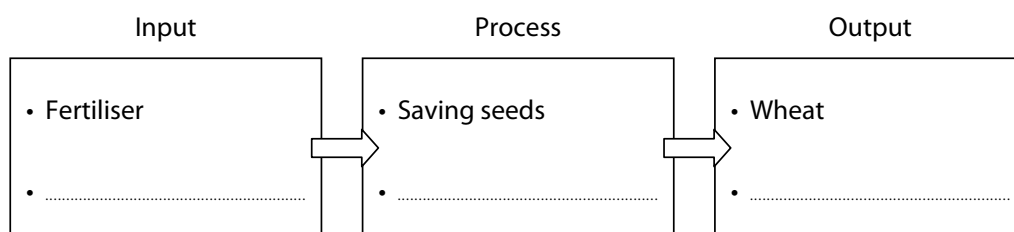
**(Total for Question 4 = 25 marks)**

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

Remember to put a cross in the box if you are doing the question!

## 5 Ecosystems and rural environments

(a) Study Figure 5 which shows an incomplete diagram of a farm system.



**Figure 5**

(i) What type of farming is shown in Figure 5?

(1)

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(ii) Complete Figure 5 by adding another example to **each** of the three boxes.

(3)

(b) (i) What is 'subsistence' farming?

(2)

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(ii) Outline **two** reasons why food shortages exist in some LICs.

(4)

1 .....

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2 .....

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[illegible][illegible]

(9)

Named area .....

**(Total for Question 5 = 25 marks)**

If you answer Question 6 put a cross in the box ☐.

Remember to put a cross in the box if you are doing the question!

## 6 Urban environments

(a) Study Figure 6 which shows the distribution of shanty towns in São Paulo.

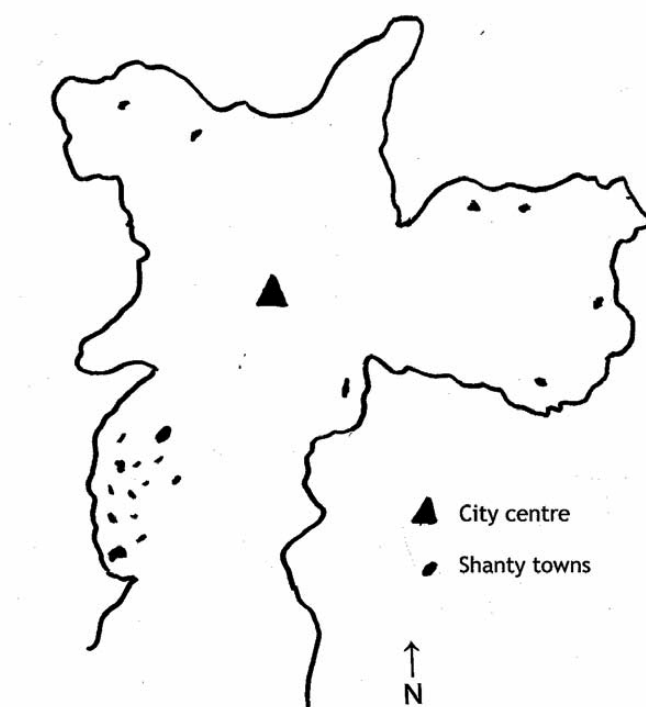


Figure 6

- (i) In which direction from the city centre is the largest concentration of shanty towns? Put a cross ☐ in the box next to the correct answer.

(1)

☐ A north east

☐ B north west

☐ C south

☐ D south west

- (ii) Suggest **three** reasons why the shanty towns are mainly found towards the edge of the city.

(3)

- 1 .....
- 2 .....
- 3 .....

(b) (i) What is a mega-city?

(2)

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(ii) Outline **two** reasons why similar types of land use tend to concentrate in particular parts of an urban area.

(4)

1 .....

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(c) Explain why groups of people have different views on the development of greenfield sites.

(6)

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(9)

Named city .....

**TOTAL FOR SECTION B = 50 MARKS**

## SECTION C: Practical geographical enquiry

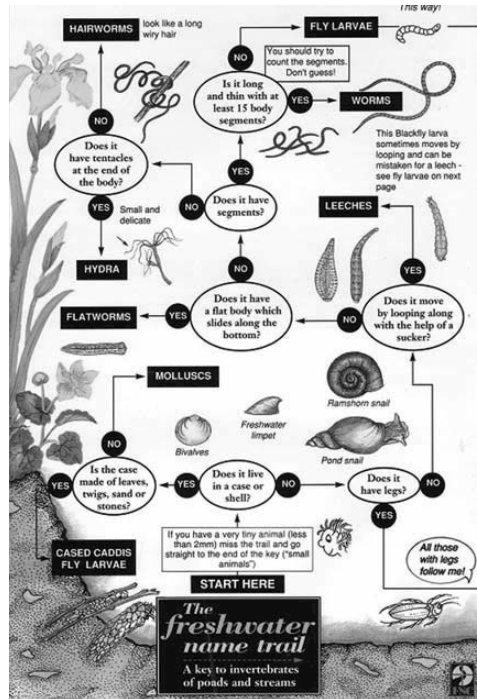
Answer TWO questions from this section. EITHER question 7 or 8  
AND EITHER question 9 OR 10.

If you answer Question 7 put a cross in the box ☐.

Remember to put a cross in the box if you are doing the question!

### 7 River Environments Fieldwork

Figure 7a shows two pieces of fieldwork equipment used in the investigation of river water quality.



(Source: Field Studies Council (c))



(Source: Field Studies Council – Nettlecombe Court)

**Figure 7a**



(a) (i) Identify the two pieces of field equipment shown.

(2)

1 .....

2 .....

(ii) For **one** of the pieces of equipment shown, briefly describe how it could be used to collect data on water quality.

(3)

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(iii) What factors should be considered when choosing sites at which to use this equipment?

(3)

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(b) Figure 7b shows some freshwater invertebrate data recorded at five different sites along a river.

Site	Species of Freshwater Invertebrate								
	Stonefly	Flattened Mayfly	Swimming Mayfly	Burrowing Mayfly	Cased Caddis	Non-biting midge	Freshwater Shrimp	Hoglouse	Rat-tailed maggot
1	7	10	0	0	4	20	0	0	0
2	0	3	15	0	0	15	5	0	0
3	0	0	5	5	0	10	0	10	0
4	0	0	0	0	0	15	0	0	5
5	0	0	0	1	0	15	0	5	0

**Figure 7b**

- (i) In the space below, draw a simple sketch to present and compare the results from **Site 1** and **Site 5**.

(4)

- (ii) Justify your choice of data presentation technique in (b)(i).

(3)

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- (6)

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- (4)

[illegible]

**(Total for Question 7 = 25 marks)**

If you answer Question 8 put a cross in the box ☐.

Remember to put a cross in the box if you are doing the question!

## 8 Hazardous Environments Fieldwork

Figure 8a shows two pieces of fieldwork equipment used to measure local weather.



(Source: David Holmes / GeographySouthWest)



**Figure 8a**

(a) (i) Identify the two pieces of field equipment shown.

(2)

1 .....

2 .....

(ii) For **one** of the pieces of equipment shown, briefly describe how it could be used to measure local weather.

(3)

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(iii) What factors should be considered when choosing sites at which to use this equipment?

(3)

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(b) Figure 8b shows some data recorded at a school weather station (9.00 am) over a six-day period.

		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
	<b>Units</b>						
<b>Cloud cover</b>	<i>Oktas</i>	2	8	7	5	3	2
<b>Pressure</b>	<i>millibars</i>	996	992	988	1000	1004	1003
<b>Temperature</b>	$^{\circ}\text{C}$	3	7	8	4	5	6
<b>Rainfall (over 24hrs)</b>	<i>mm</i>	0	5	7	0	0	0

**Figure 8b**

- (i) In the space below, draw a simple sketch to show how you could present and compare the results from **temperature** and **rainfall**.

(4)

- (ii) Justify your choice of data presentation technique in (b)(i).

(3)

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- (6)

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**(Total for Question 8 = 25 marks)**

If you answer Question 9 put a cross in the box ☐

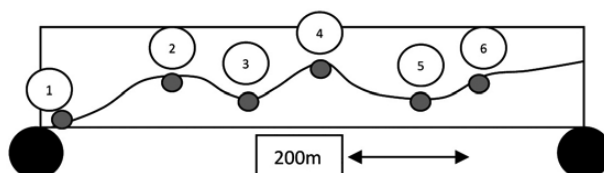
Remember to put a cross in the box if you are doing the question!

## 9 Ecosystems and Rural Environments Fieldwork

A group of students investigated the characteristics of sand dune ecosystem along a transect. Figure 9a shows the locations of where the data was collected.



GIS map of a sand dune ecosystem



A transect profile (A-B) and six sampling points

**Figure 9a**



(a) (i) Suggest **one** possible aim of this investigation.

(1)

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(ii) Identify **two** possible risks associated with fieldwork in this type of location.

(2)

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(iii) Briefly describe the some of the equipment you might use to collect data about characteristics of the sand dune ecosystem.

(3)

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(iv) Why do you think the points in Figure 9a are spaced at **unequal** distances from each other?

(2)

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(b) Study Figure 9b which shows some of results from the students' fieldwork transect.

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Distance from start of transect (m)	10	190	340	440	620	720
Number of species	0	1	4	7	12	8
Marram grass (% frequency)	0	20	55	10	0	0
Soil pH	7.5	7.5	7.0	6.5	6.0	5.5

**Figure 9b**

- (i) In the space below, draw a simple sketch to show how you could best present these results.

(4)

- (ii) Justify your choice of data presentation technique in (b)(i).

(3)

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(6)

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(4)

**(Total for Question 9 = 25 marks)**

If you answer Question 10 put a cross in the box ☐.

Remember to put a cross in the box if you are doing the question!

## 10 Urban Environments Fieldwork

A group of students investigated environmental quality at six points along an urban road. Figure 10a shows the locations of where the data was collected.

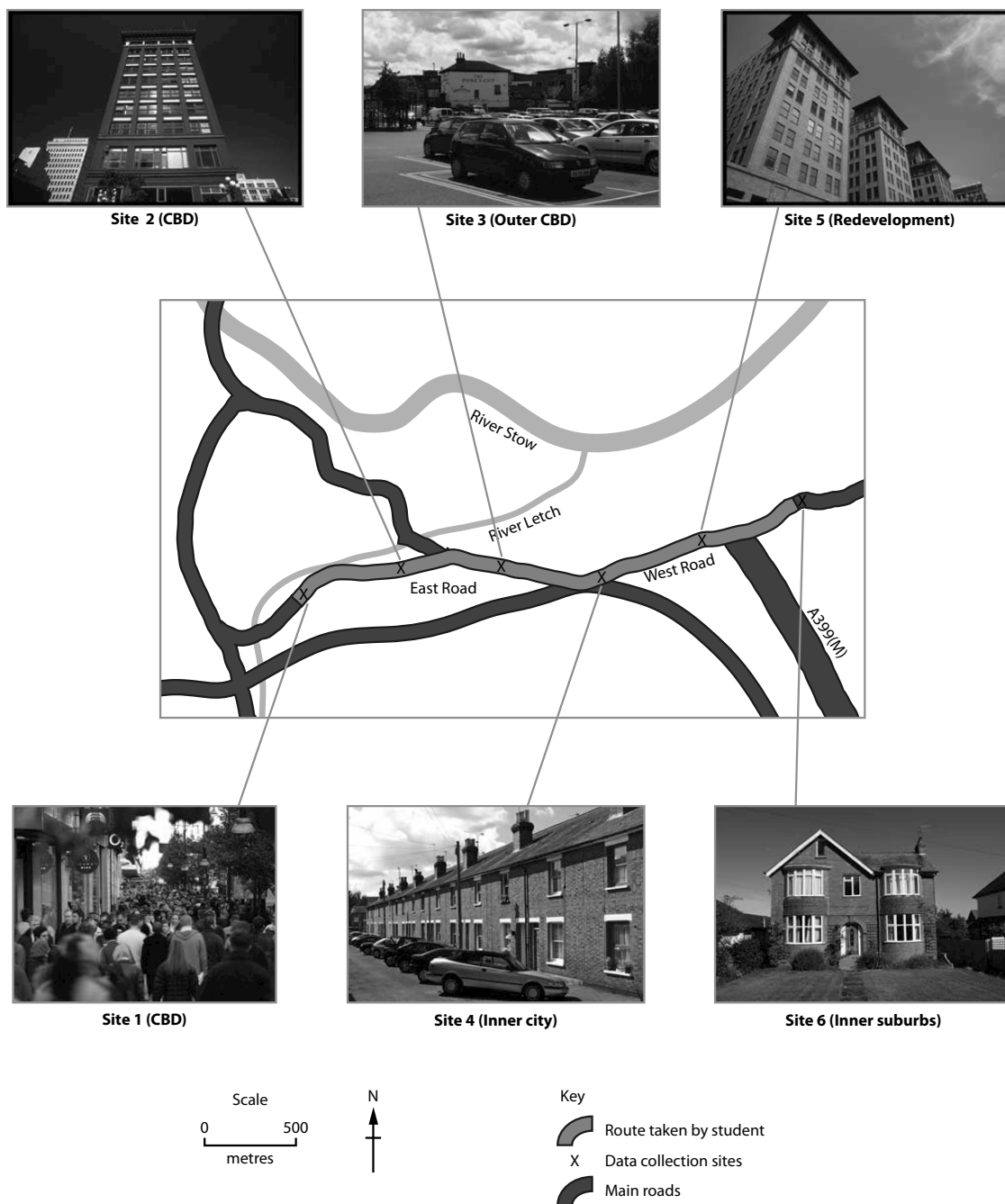


Figure 10a

(a) (i) Suggest one possible aim of this investigation.

(1)

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(ii) Identify **two** possible risks associated with fieldwork in this type of location.

(2)

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(iii) Briefly describe some of the equipment (including recording sheets) you might use to collect data about urban environmental quality.

(3)

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(iv) Why do you think the points in Figure 7a are spaced at **equal** distances from each other?

(2)

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(b) Study Figure 10b which shows the results from the students' environmental quality survey.

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Street cleanliness	9	7	2	5	10	6
Exterior appearance of shops and buildings	7	5	-5	2	10	9
Litter and vandalism	10	6	6	-6	10	-2
TOTALS	27	18	3	1	30	13

Note all categories have a maximum and score of +10 (very good) and a minimum of -10 (very bad)

**Figure 10b**

- (i) In the space below, draw a simple sketch to show how you could best present these results.

(4)

(3)

.....

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.....

.....

(6)

This image shows a full page of white paper with horizontal dashed lines, typical of primary school writing paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(iv) Comment on the accuracy and reliability of the data in Figure 10b.

(4)

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**(Total for Question 10 = 25 marks)**

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**TOTAL FOR SECTION C = 50 MARKS**



## SECTION D: Global issues

Answer ONE question from this section

If you answer Question 11 put a cross in the box ☐

Remember to put a cross in the box if you are doing the question!

### 11 Fragile environments

- (a) Study Figure 11 which shows how the average annual global temperature varied between 1860 and 2005.

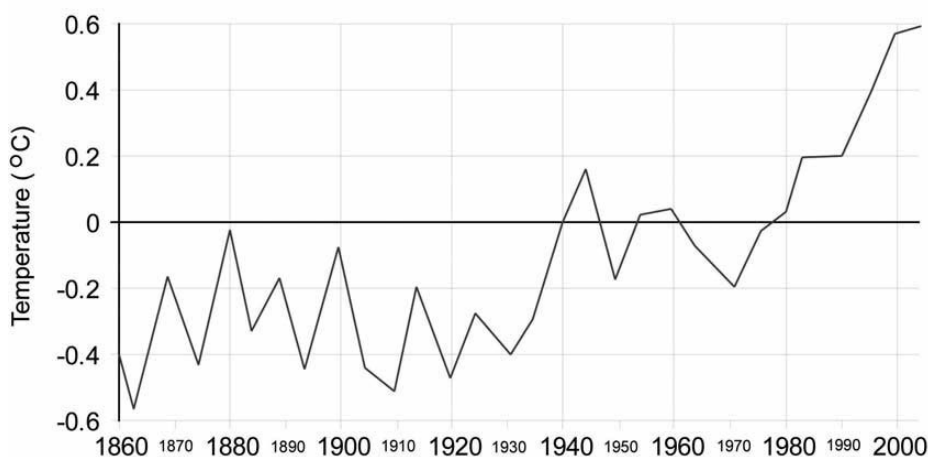


Figure 11

- (i) Which of the following was the warmest decade (10-year period)?  
Put a cross in the box next to the correct answer.

(1)

- ☒ A 1880–1890  
☐ B 1940–1950  
☐ C 1950–1960  
☐ D 1990–2000

- (ii) Describe the trend from 1980 to 2000.

(2)

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(iii) Name **two** human activities that cause atmospheric pollution which may result in global warming.

(2)

1 .....

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2 .....

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(b) (i) Suggest the likely impact that climate change might have on:

(4)

1. ecosystems

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2. food supply

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(ii) Outline one way climate change could be addressed through an international agreement.

(2)

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(4)

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(6)

[illegible]

(9)

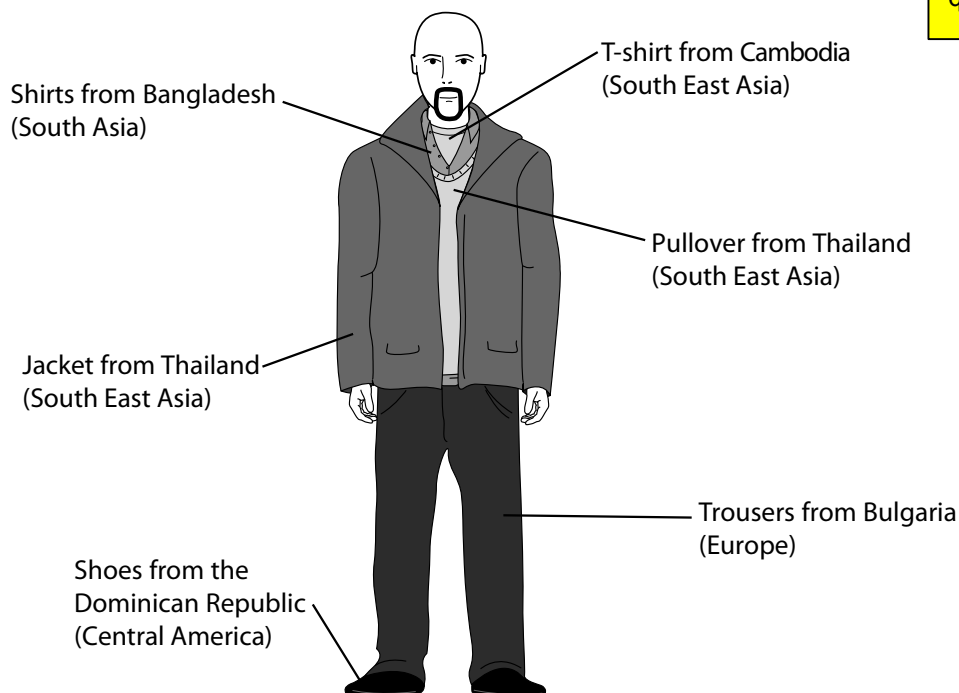
Name of threatened tropical rainforest .....

**(Total for Question 11 = 30 marks)**

If you answer Question 12 put a cross in the box ☐

Remember to put a cross in the box if you are doing the question!

## 12 Globalisation and migration



Products retailed in 30 countries, mainly in North America, Europe and Asia

US company employing 5550 retail staff and having a revenue of £1 billion a year

**Figure 12**

- (a) (i) Name **one** piece of clothing, worn by the man in Figure 12, that is **not** manufactured in South East Asia.

(1)

- (ii) Which global region contributed the most items to clothe the man in Figure 12?

(1)

(iii) What is a TNC?

(1)

.....

.....

(iv) Give **two** disadvantages for the host country of the establishment of TNCs.

(2)

1 .....

.....

2 .....

.....

(b) (i) Define the term mass tourism.

(2)

.....

.....

(ii) Outline **two** impacts of mass tourism.

(4)

1 .....

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2 .....

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(iii) Describe how tourism could be made more sustainable.

(4)

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(c) Describe the main advantages and disadvantages of globalisation.

(6)

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(9)

Named international migration .....

**(Total for Question 12 = 30 marks)**



If you answer Question 13 put a cross in the box ☐.

Remember to put a cross in the box if you are doing the question!

### 13 Development and human welfare

- (a) Study Figure 13 which shows some development indicators for Sri Lanka and the United Kingdom (UK).

Indicator	Sri Lanka	United Kingdom
Urban Population (% of total population)	23	92
Infant Mortality Rate (per 1000 people)	17	6
Gross National Product (GNP) (US\$ per person per year)	800	20 800
TVs (per 1000 people)	82	612
Doctors (per 1000 people)	23	164
Literacy Rate (% of total population)	91	99

**Figure 13**

- (i) In the UK, GNP is higher than in Sri Lanka, by how many dollars per person? (1)
- ☐ A 200
- ☐ B 2 000
- ☐ C 20 000
- ☐ D 200 000
- (ii) When compared to Sri Lanka, the UK has a lower (1)
- ☐ A infant mortality rate
- ☐ B literacy rate
- ☐ C number of doctors
- ☐ D number of TVs

(iii) Which of these countries is an LIC?

(1)

(iv) Define the term 'infant mortality'?

(2)

(b) (i) What are emerging economies?

(2)

(ii) For one emerging economy, outline **two** reasons for its development.

(4)

1 .....

2 .....

(iii) The global development gap has created a North – South divide. Outline **two** characteristics of countries in the 'North' of the divide.

(4)

1 .....

2 .....

[illegible][illegible]

(9)

This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines, providing a guide for letter height and placement. The lines are evenly spaced across the entire page, which is otherwise blank.

**TOTAL FOR SECTION D = 30 MARKS**  
**TOTAL FOR PAPER = 180 MARKS**