

### **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		



GEOGRAPHY 0460/22

Paper 2 May/June 2016

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler

Protractor Plain paper Calculator

1:50 000 Survey Map Extract is enclosed with this Question Paper.

#### READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Write your answer to each question in the space provided.

If additional space is required, you should use the lined pages at the end of the booklet. The question number(s) must be clearly shown.

Answer all questions.

The Insert contains Photograph A for Question 3 and Photograph B for Question 6.

The Survey Map Extract and the Insert are **not** required by the Examiner.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [ ] at the end of each question or part question.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

CAMBRIDGE
International Examinations

- 1 Study the map extract for Slievenamon, Republic of Ireland. The scale is 1:50 000.
  - (a) Fig. 1 shows some of the features in the east of the map extract. Study Fig. 1 and the map extract, and answer the questions below.

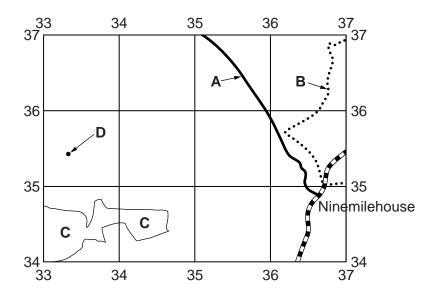


Fig. 1

Using the map extract, identify the following features shown on Fig. 1:

[1]
-----

(ii) feature B;

<b>F A T</b>
ПП
Г.Т

(iii) the land use in area C;

I and the second se	[4]	
	111	
· · · · · · · · · · · · · · · · · · ·		

(iv) the height above sea level of the spot height at **D**.

metres	[1]

(b) What is the settlement pattern in the area shown on Fig. 1? Tick one correct answer below.

	Tick (✓)
linear	
nucleated	
dispersed	

[1]

4	(~)	Cind the read	iunation at	Ninemilehouse,	ahauua	an Fia	1
۱		, Fillu lil <del>e</del> luau	juniciion ai	Millerilleriouse,	SHOWH	on rig.	Ι.

(i) What is the six-figure grid reference of the road junction? Tick **one** correct answer below.

	Tick (✓)
347365	
348366	
349366	
365348	
366348	

Γʻ	21
Ľ	<u>-</u> ]

(ii)	Measure the distance along the N76 road from the road junction to the southern edge of
	the map extract. Give your answer in metres.

metres	[1]	ı

(d)	) Look at the settlement at Fethard in the west of the ma	ap extract. Give	two reasons	for the
	growth of the settlement.			

1.	
• • • •	
2	
۷.	
	[2]
• • •	[2]

**(e)** Find the Anner River on the map. What is the direction of flow of the river? Tick **one** correct statement below.

	Tick (✓)
to the north east	
to the north west	
to the south east	
to the south west	

[1]

(f) Fig. 2 is a cross section along easting 30, across the valley of the Anner River. The cross section is from 300380 (at the northern edge of the map) to 300330.

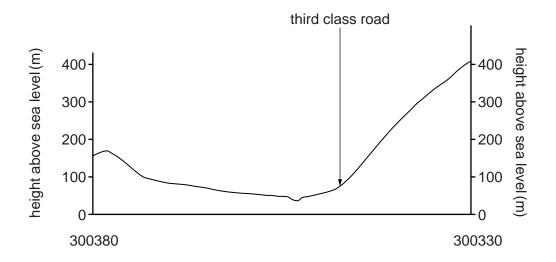
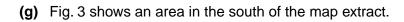


Fig. 2

On Fig. 2, using labelled arrows, mark the positions of:

- (i) the Anner River; [1]
- (ii) the south-facing valley side; [1]
- (iii) the R692 road. [1]



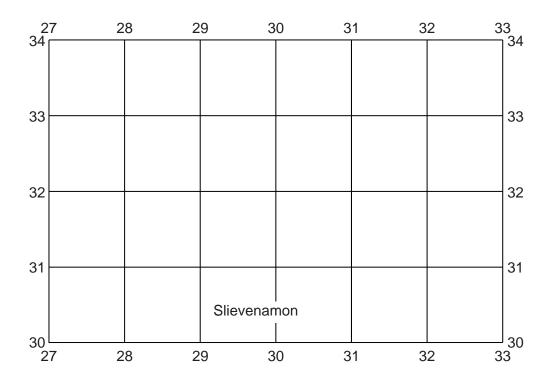


Fig. 3

Describe the relief <b>and</b> drainage of the area shown on Fig. 3.
Relief
Drainage
[6]

**2** (a) Fig. 4 shows an industrial system.

Inputs —	→ Processes	➤ Outputs
Examples: raw materials labour land	Examples: research and development manufacture of components assembly of components	Examples: finished product profits

Fig. 4

Complete Fig. 4 by adding each of the following examples.

waste products capital marketing [3]

**(b)** Two motor vehicle producers, Volkswagen from Germany and Toyota from Japan, have factories in many countries. The distribution of the Volkswagen factories is shown on Fig. 5. The distribution of the Toyota factories is shown on Fig. 6. Study Figs. 5 and 6 and answer the questions on the opposite page.

Content removed due to copyright restrictions.

# **Distribution of Toyota factories**

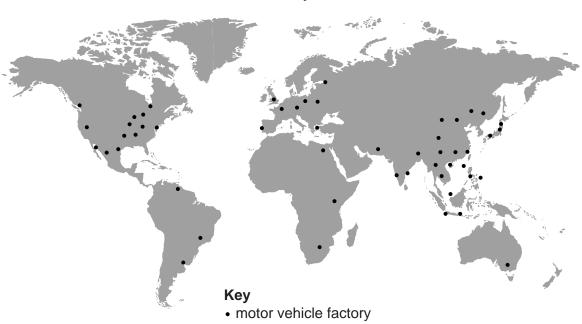


Fig. 6

	(i)	Give <b>two</b> similarities between the distribution of Volkswagen factories and the distribution of Toyota factories.
		1
		2
		[2]
	(ii)	Give <b>two</b> differences between the distribution of Volkswagen factories and the distribution of Toyota factories.
		1
		2
		[2]
(c)		gest <b>one</b> reason why companies like Volkswagen and Toyota locate factories outside many and Japan.
		[1]
		[Total: 8 marks]

3	(a)	Study Photograph A (Insert), which shows an area of tropical rainforest. Describe the vegetation seen in the photograph.
		[6]

(b)		features of plants in the tropical rainforest are given below. Explain how each feature is pted to the equatorial climate:
	(i)	channelled leaves with drip tips;
		[1]
	(ii)	broad leaves.
		[1]
		[Total: 8 marks]

**4** Fig. 7 shows the 10 regions of Ghana in west Africa. Fig. 8 shows the net population migration rate of the regions. Study Figs. 7 and 8 and answer the questions on the opposite page.

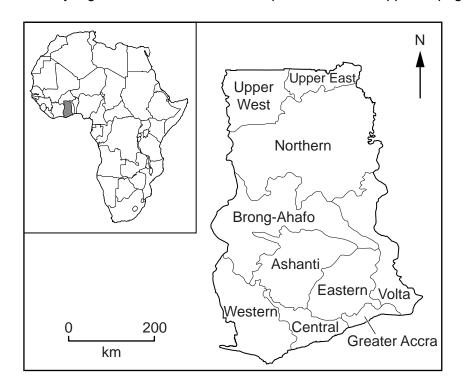
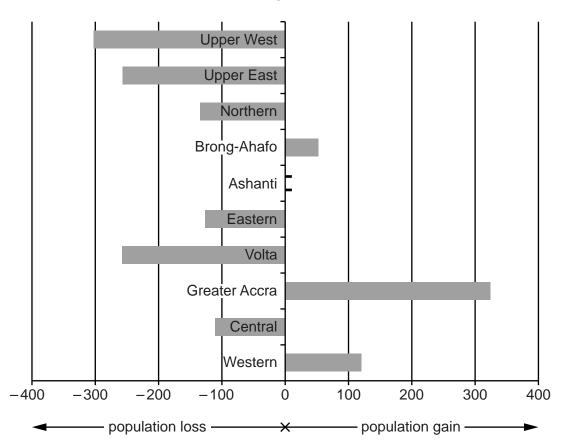


Fig. 7



net population migration rate (per 1000)

Fig. 8

Table 4 above the	manian of binth o			
Table 1 shows the	region of birth o	residents of Greater Accra  able 1	region.	
		able i		
Region of Birth	Number	Region of Birth	Number	
Greater Accra	2 326 543	Northern	93 677	
Eastern	454 571	Western	82 855	
Volta	345 729	Brong-Ahafo	61 995	
Central	255 637	Upper East	40 809	
1	246 564	Upper West	16 489	
Ashanti	and Table 1 does	the main features of migrati	on to Greater Ac	cra
	Thu Table 1, uest	-		
	ilid lable 1, desc			

(d) Fig. 9 shows the ages of citizens of Ghana who live in other countries.

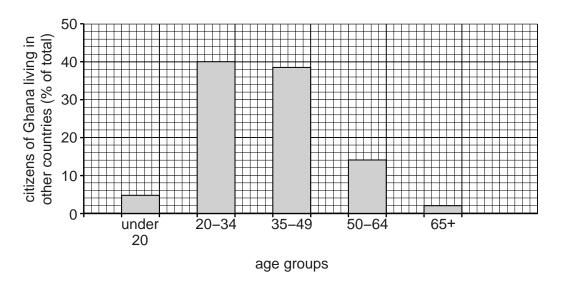


Fig. 9

Suggest <b>one</b> reason for the pattern	
	[
	[Total: 8 marks

## **TURN PAGE FOR QUESTION 5**

**5** Table 2 gives information about the most powerful earthquake in each year between 2003 and 2012.

Table 2

Year	Magnitude (Richter Scale)	Number of deaths	Depth of focus (km)
2003	8.3	0	27
2004	9.1	227898	30
2005	8.6	1313	30
2006	8.3	0	10
2007	8.5	25	34
2008	7.9	87 587	19
2009	8.1	192	18
2010	8.8	547	35
2011	9.0	20896	29
2012	8.6	0	23

(a) Table 3 describes the depth of earthquake foci.

Table 3

Depth of focus (km)	Description
0–50	shallow
50.1–300	medium
300.1–670	deep

	Using Tables 2 and 3, describe the depth of foci of the ten earthquakes shown in Ta							
		[1	[1]					
b)	(i)	Describe the variation in the number of deaths caused by the earthquakes shown i Table 2.	n					
		[1						

	13
(ii)	Suggest <b>two</b> reasons for this variation.
	1
	2
	[2]
( <b>c)</b> Fig.	10 shows the location of these powerful earthquakes.
Key ● epi	North American Plate  South American Plate  Nazca Plate  Nazca Plate  Nazca Plate  American Plate  Antarctic Plate
	Fig. 10
	ng Fig. 10, describe and give reasons for the distribution of powerful earthquakes. Refer to e tectonics in your answer.

[Total: 8 marks]

.....[4]

**6 (a)** Increasing food supply can be done by increasing the area of cultivation or by making agriculture more intensive. Fig. 11 below describes some of these methods.

In some countries the area of irrigated agriculture has increased. There have been increased inputs of fertiliser. Deforestation has occurred and marsh has been drained. Some steep mountain slopes have been terraced. Agriculture has become more mechanised. Areas of unused bushland and other natural vegetation have been brought into cultivation. Improved crop varieties have been introduced and the methods of cultivation and harvesting have been improved.

#### Fig. 11

Using information from Fig. 11 **only**, describe:

(i)	two ways of increasing the area cultivated;
	1
	2
	[2
(ii)	two ways of making agriculture more intensive.
	1
	2
	ca .

(b)	Study Photograph B (Insert), which shows a valley in South Africa. Describe the <b>relief</b> and <b>land use</b> of the valley sides and the valley floor.
	Valley sides
	relief
	land use
	Valley floor
	relief
	land use
	[4]
	[Total: 8 marks]

# **Additional Pages**

If you use the for number(s) must b		complete	the ans	wer(s) to	any o	question(s),	the	question

20

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