

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

CANDIDATE NAME			
 CENTRE NUMBER		CANDIDATE NUMBER	
GEOGRAPHY			0460/21
Paper 2		Oc	tober/November 2017
			1 hour 30 minutes
Candidates answer	on the Question Paper.		
Additional Materials	s: Ruler Protractor		

Ruler

Protractor Plain paper Calculator

1:25000 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 Photographs A and B for Question 4, and Photograph C 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.

Definitions MEDCs - More Economically Developed Countries LEDCs - Less Economically Developed Countries

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

This document consists of 17 printed pages, 3 blank pages and 1 Insert.



1 Study the map extract for Vangsvatnet, Norway. The scale is 1:25 000.

Fig. 1 shows some of the features around the lake of Vangsvatnet. Study Fig.1 and the map extract, and answer the questions on the opposite page.



Fig. 1

(a)	a) Using the map extract, identify the following features shown in Fig. 1:					
	(i)	feature A ;				
	(ii)	feature B ;				
(iii)	feature C ;				
(iv)	the height above se	ea level at trigonor	netric point D ;		
	(v)	feature E;				
(vi)	the name of river F				[,]
						[1]
(\	/ii)	the feature of the ri				
(1)						
		erson walks along the correct answer belo		e from H to J . How fai	r does the person wa	k? Circle
		1500 m	1800 m	2100 m	2400 m	[1]
	c) Describe the route of the railway from the western edge of the map to the settlement at Bulken.					
						[2]





 	 [5]
	L - J

(e)	Describe the distribution of cultivation and forest in the area shown by the map extract.
	Cultivation
	Forest
	[5]
	[Total: 20 marks]

2 Fig. 3 shows the population structure of Angola, an LEDC. Fig. 4 shows the population structure of Japan, an MEDC.





age (years) male female g ñ Ā 6 5 2 2 3 5 4 3 0 0 4 6 1 1 population (millions)





0460/21/O/N/17

(ii) the proportion of the population aged 65 and over.

.....[1]

(c) Fig. 5 shows an estimate of the population structure of Japan in 2030.



Fig. 5

(i) Using Figs. 4 and 5, describe how Japan's population structure is expected to change between 2013 and 2030.

3 Fig. 6 is a map showing plates, plate boundaries and the directions of plate movement.



Fig. 6

(a) Five places, 1–5, are marked in Fig. 6. For each question write **one** number in each box below.

Which number on the map shows a:

(i)	place where earthquakes are unlikely to occur;	[1]
(ii)	place where plates are sliding past each other;	[1]
(iii)	subduction zone;] [1]
(iv)	place where sea floor spreading is happening?] [1]

(b) On April 25 2015 a major earthquake occurred in Nepal at place 2 in Fig. 6. Suggest why an earthquake happened at this location.

(c) Fig. 7 shows the pattern of intensity of the earthquake in 2015 in Nepal. Intensity is a measure of the severity of the earthquake effects.





Suggest reasons for the pattern of intensity shown in Fig. 7.

[Total: 8 marks]

[1]

[1]

[1]

[1]

4	(a) Ph	notograph A (Insert) shows a weather station at a school in Zimbabwe.	
	(i)	Name the box labelled X in Photograph A.	
			[1]
	(ii)	Name one instrument kept inside the box.	
			[1]
	(iii)	What does instrument Y measure?	
			[1]
	(iv)	Identify instrument Z.	
			[1]
	(v)	What does instrument Z measure?	
			[1]
		notograph B (Insert) shows a digital weather station.	
	(i)	How is data collected and recorded at this type of weather station?	
	(ii)		[2]
	(1)	Explain one disadvantage of the location of the weather station in thotograph D.	
		[Total: 8 r	

- 5 Employment can be classified as *primary*, *secondary*, *tertiary* and *quaternary*.
 - (a) Give one example of each type of employment. Choose from the following list:

designing mining manufacturing

transport

Primary	
Secondary	
Tertiary	
Quaternary	

(b) Fig. 8 shows how employment structure changes as a country becomes more economically developed.



Fig. 8

Describe the changes shown by Fig. 8.

(c) Fig. 9 shows the employment structure of two countries **X** and **Y**. For each country, give its stage of economic development, **1**, **2** or **3**, as shown on Fig. 8.



[Total: 8 marks]

[2]

6 (a) Table 1 gives information about the number of under-nourished people in the world.

1990–1992 (millions)	2012–2014 (millions)
1014	805
20	15
994	790
182	226
742	525
68	37
-	(millions) 1014 20 994 182 742

Table [·]	1
--------------------	---

(i) Using Table 1, describe how the number of under-nourished people in MEDCs and LEDCs has changed.

(ii) 'Food shortages are spread evenly across the world.'

To what extent do you agree? Give evidence from Table 1 to support your answer.

- (b) Study Photograph C (Insert), which shows an agricultural area.
 - (i) Which **two** of the following terms describe the farming system shown in Photograph C? Tick **two** boxes.

	Tick (✓)
subsistence	
arable	
pastoral	
mixed	
intensive	

[2]

(ii) Suggest how food production could be increased in the area shown in Photograph C.

[Total: 8 marks]

Additional Pages

If you use the following pages to complete the answer(s) to any question(s), the question number(s) must be clearly shown.

© UCLES 2017

0460/21/O/N/17	,
0400/21/0/11/1/	

BLANK PAGE

BLANK PAGE

BLANK PAGE

20

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge International Examinations Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cie.org.uk after the live examination series.

Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.