UNIVERSITY OF CAMBRIDGE INTER	
International General Certificate of	f Secondary Education
GEOGRAPHY	0460/01
Paper 1	
	May/June 2006
	1 hour 45 minutes

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet. Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

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

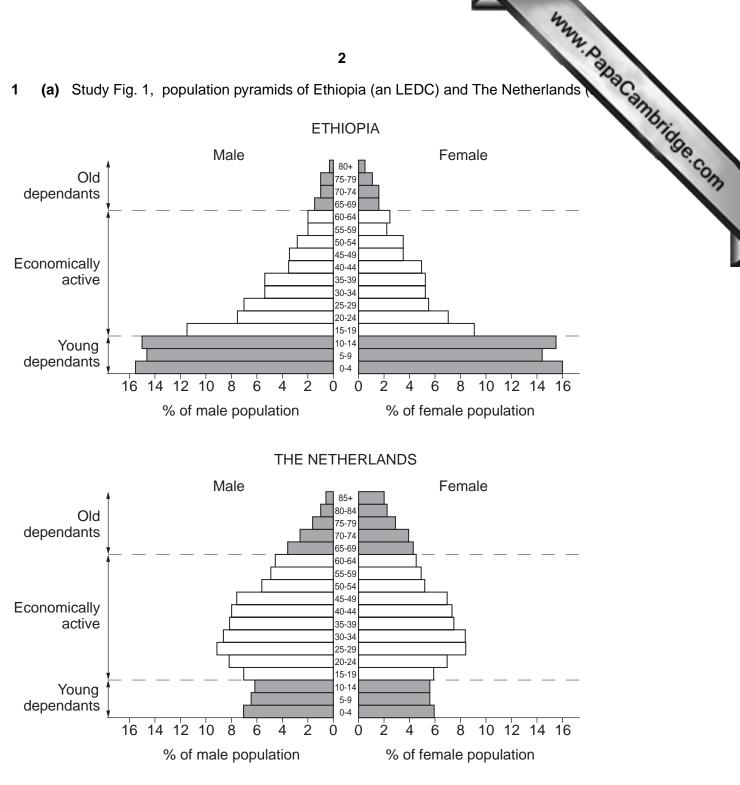
Answer three questions.

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

The insert contains Photograph A for Question 2 and Photographs B, C and D for Question 3.

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.





- (i) Which age group in Ethiopia has the largest percentage of both males and females? [1]
- (ii) What evidence in the population pyramids suggests that:
 - A. people in The Netherlands have a longer life expectancy than people in Ethiopia?
 - B. Ethiopia has a higher birth rate than The Netherlands?

[2]

- (iii) How does the dependent population of Ethiopia differ from that of The Netherlands? Support your answer with figures. [3]
- (iv) Describe the ways in which the dependent population is supported in LEDCs and MEDCs. [4]

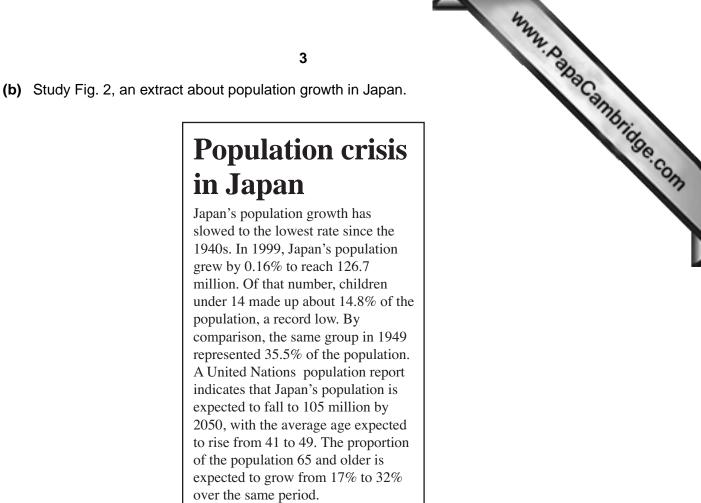


Fig. 2

- (i) Suggest reasons why Japan has an ageing population.
- (ii) Suggest the likely effects of this population trend on the Japanese economy by 2050. [5]

[3]

(c) Explain why the governments of some countries may be concerned by a rapid growth of population. You may refer to examples which you have studied. [7]

	h A (Inser	t), taken in No	ew York, U	•	nine large urb	ban area
	Socio	-economic indi	cators	En	vironmental indi	cators
Urban Area	Persons per room	% homes with water & electricity	Murder per 100000	Levels of measured noise (1–10)	Mean traffic speed (km/h in rush hour)	Levels of measured air pollution (1–10)
Tokyo	0.9	100	1.4	4	44.8	4
Mexico City	1.9	94	27.6	6	12.8	9
Sao Paulo	0.8	93	26.0	6	24.0	4
New York	0.5	99	12.8	8	13.9	5
Shanghai	2.0	95	2.5	5	24.5	4
Los Angeles	0.4	100	12.4	6	30.4	7
Kolkata	3.0	60	1.1	4	21.3	10
Mumbai	4.2	83	1.1	5	16.6	7
Beijing	1.6	89	2.5	4	41.1	10

Quality of life indicators for nine large urban areas.

Note: where 1–10 scale is used 1 is low and 10 is high.

Fig. 3

- (i) What is meant by *urban area*?
- (ii) Use Fig. 3 to name an urban area where:
 - A. housing is overcrowded,
 - B. air quality is poor.
- (iii) Using only information from Fig. 3, identify three differences between the quality of life of people living in Shanghai and New York. [3]
- Using evidence from Photograph A, describe the problems which are likely to be faced (iv) by people who live in New York. [4]
- (b) Study Fig. 4, based on a newspaper article about traffic in Auckland, New Zealand.

[1]

[2]

No contest as bikes hit heavy traffic

TRANSPORT: Cars, buses and bikes raced to the city in rush hour challenge. Pedal power ruled.

Cyclists left car drivers behind yesterday as they pedalled their bikes through Auckland's slow traffic in the morning rush hour.

In the Auckland Commuter Challenge four sets of cyclists, car drivers and buses raced into the centre of Auckland.

The cyclists were quickest with an average time of 26 minutes 51 seconds. This is the latest demonstration of Auckland's traffic crisis, says Cycle Action Auckland, which organised the event.

About 6 per cent of commuters travel by bike or foot, 7 per cent by public transport and the rest in their cars.

Traffic congestion is getting worse as 3 per cent more cars each year are using roads that have not been significatly improved.

Tuesday's announcement of a \$1.6 billion funding package to improve the road network is hoped to get Auckland moving.

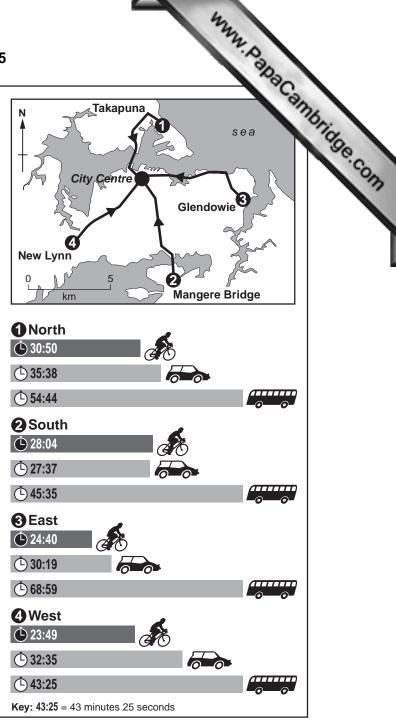


Fig. 4

- (i) How do the results of the 'rush hour challenge' reported in Fig. 4 show that there is traffic congestion in Auckland? [3]
- (ii) Explain why traffic congestion is a problem in many large urban areas. [5]
- (c) In all large urban areas attempts have been made to solve the problems faced by the people who live there. These include problems such as:

traffic congestion, squatter settlements, housing shortages, urban sprawl.

Choose either one of these problems or any other problem faced by people who live in urban areas. For a named urban area, describe the attempts which have been made to solve the nrahlam which you have abacan [7]

5



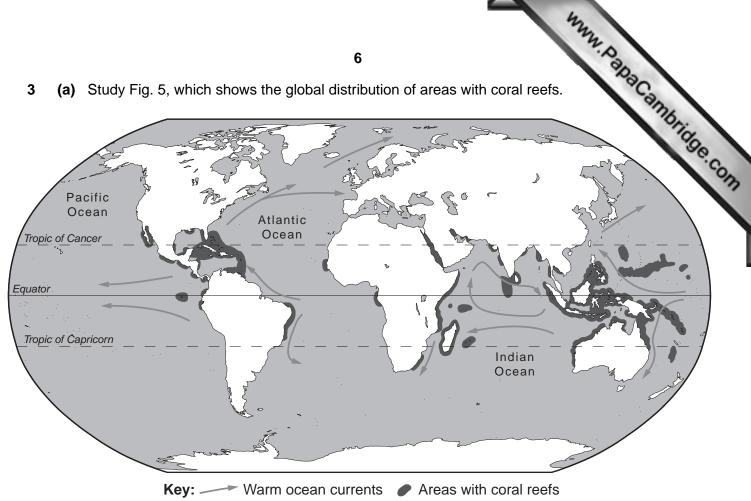


Fig. 5

- What is a coral reef? (i) [1]
- Australia is a country with coral reefs. Name two other countries with coral reefs along (ii) their coastlines. [2]
- (iii) Describe the global distribution of coral reefs. [3]
- Describe the conditions required for the development of coral reefs. [4] (iv)
- (b) Study Photographs B, C and D (Insert), which show human activities in three different coastal areas.
 - (i) Using only evidence from the photographs, identify three ways in which coastal areas can provide opportunities for people. [3]
 - Explain how human activities can damage the natural environment in coastal areas. You (ii) can refer to the areas shown in the photographs or to any examples which you have studied. [5]
- (c) Explain how the natural features of headlands are formed as a result of wave processes. You may use labelled diagrams in your answer. [7]

6



BLANK PAGE

(a) Study Fig. 6 which shows three instruments which are used to measure character 4 weather.

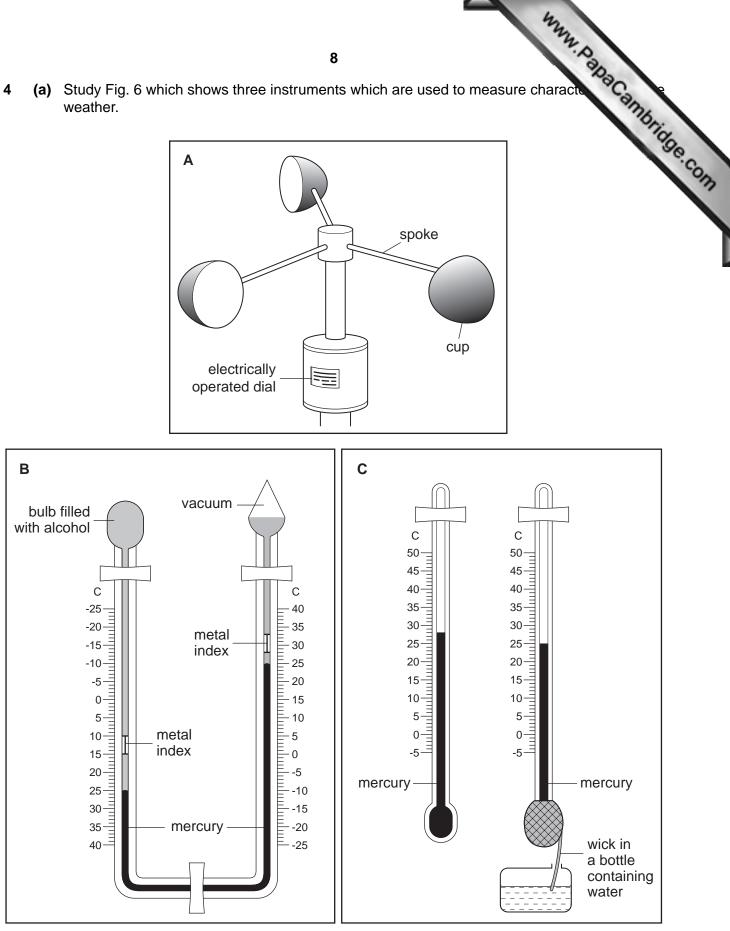


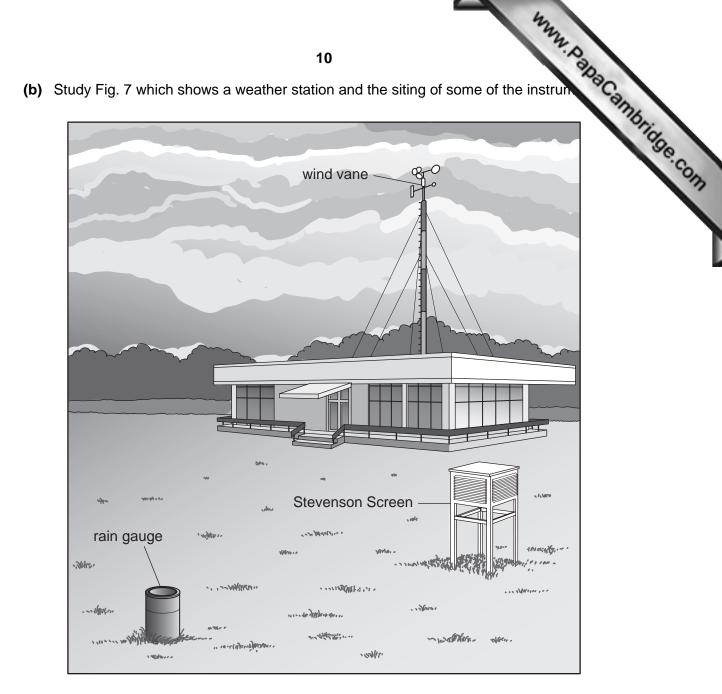
Fig. 6

- (i) Which weather characteristic is measured by instrument A? [1]
- (ii) Identify the weather instruments labelled **B** and **C**.

[2]

9 (iii) Use the correct instrument shown in Fig. 6, along with Table 1, to work of humidity. You must show how you got your answer. Table 1 Wet-bulb depression (°C)							
	Wet-bulb depression (°C)						
		0	1	2	3	4	5
	Dry bulb	%	%	%	%	%	%
	22°C	100	90	82	73	65	60
	24°C	100	91	82	74	66	62
	26°C	100	91	83	75	67	64
	28°C	100	91	83	76	68	65
	30°C	100	92	84	77	68	66
	32°C	100	92	85	78	70	68

Question 4 continues on page 10.





- (i) Explain how you would take measurements using the rain gauge. [3]
- (ii) Explain why the instruments labelled **B** and **C** on Fig. 6 will give more accurate readings if they are kept in a Stevenson Screen rather than on the roof of the building. [4]
- (iii) Describe and explain the location of the wind vane and the rain gauge. [5]
- (c) The weather often causes problems for people. These include problems caused by:

flooding, drought, tropical storms.

Choose **either** one of these hazards **or** any other hazard faced by people as a result of the weather or climate. Describe the problems experienced by people living in areas at risk from your chosen hazard.

You may refer to examples which you have studied.

[7]



BLANK PAGE

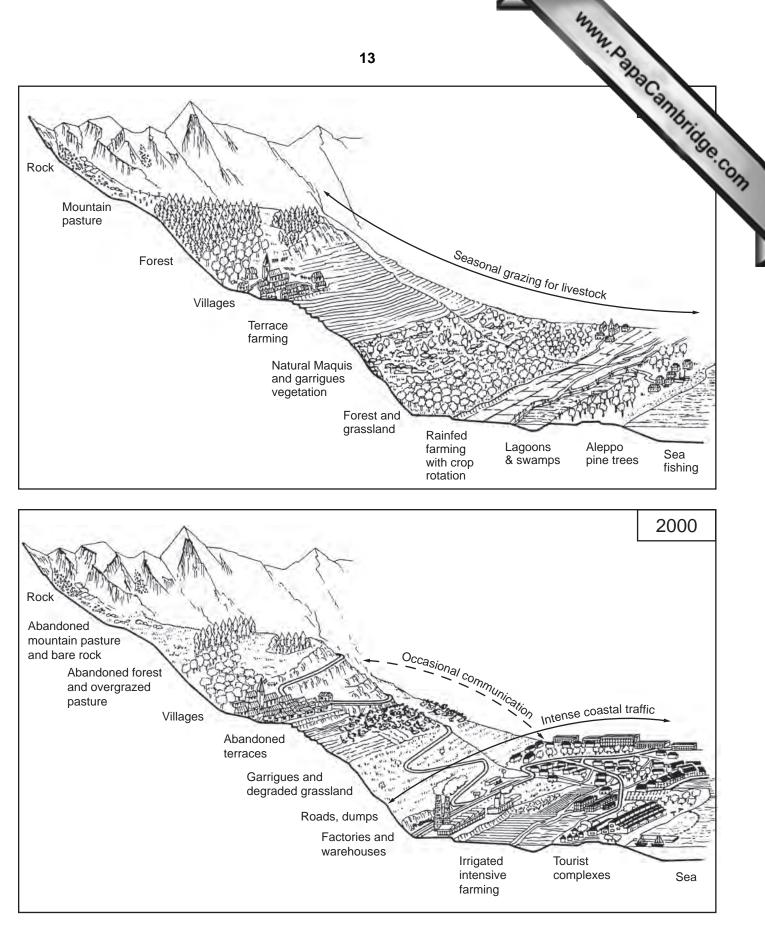
11

5 (a) Study Fig. 8 which shows information about the jobs created by the growth of LEDC in Africa.

12 Study Fig. 8 which shows information about th LEDC in Africa.	e jobs created by	the growth of t	DaCambridge.
Jobs	Local people	People from abroad	.9e
Hotels - high paid jobs	1%	4%	
Hotels - low paid jobs	52%	1%	
Tour operators - high paid jobs	2%	3%	
Tour operators - low paid jobs	15%	1%	
Other jobs	20%	1%	

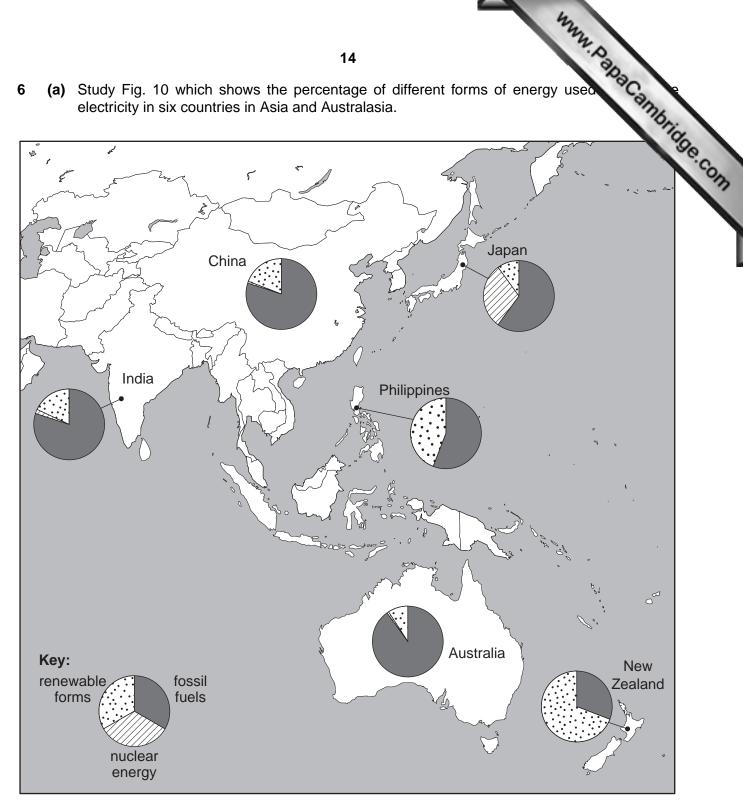
Fig. 8

- (i) State the percentage of jobs in hotels created by the growth of tourism. [1]
- (ii) What does Fig. 8 suggest about the difference in jobs created by tourism for local people and people from abroad? [2]
- State three other benefits, as well as the creation of jobs for local people, which tourism (iii) brings to an LEDC. [3]
- (b) Study Fig. 9 (opposite) which shows the changes which have taken place over a 50 year period in an area where tourism is important, along the Mediterranean coast in southern Europe.
 - (i) Using only evidence from Fig. 9, describe three changes which have taken place in the area as a result of economic development. [3]
 - (ii) Suggest reasons why some people are worried about the continued growth of the tourist industry in areas such as the one shown in Fig. 9. [4]
 - (iii) Tourism is important in many countries. How can it be developed so that it is sustainable? [5]
- (c) For a named area which you have studied, explain why the tourist industry is important. You should refer to the area's physical and human attractions. [7]





6 (a) Study Fig. 10 which shows the percentage of different forms of energy used electricity in six countries in Asia and Australasia.





(i) Which country relies on fossil fuels for 90% of its electricity?	[1]
--	-----

(ii) Give an example of:

A. a fossil fuel,	
B. a renewable form of energy.	[2]

- Compare the importance of the different methods of generating electricity in New (iii) Zealand and Japan. [3]
- Suggest reasons why the importance of different methods of generating electricity varies (iv) from country to country ٢/٦

(b) Study Fig. 11 which shows the changes in the importance of different types of used to generate electricity in Japan between 1960 and 2000.

Briefly describe the changes in the importance of different types of power station in J between 1960 and 2000.

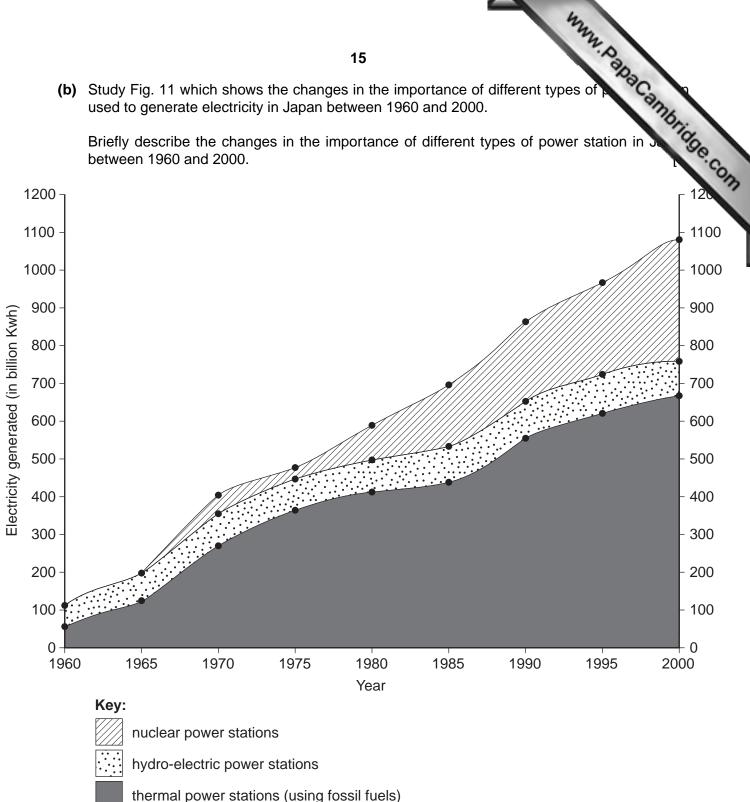


Fig. 11

- (c) For any one type of power station, describe and explain the factors which influence its siting. [5]
- (d) Identify a form of energy and describe how its use threatens the natural environment. You may refer to named areas which you have studied. [7]



BLANK PAGE

Copyright Acknowledgements:

Question 1	Fig. 2 © Geo-News Review, June 2000.
Question 2	Fig. 4 © The New Zealand Herald, February 2004.
Question 3	Fig. 5 © T. Y. Chun (1997) Understanding Geography, Addison-Wesley Longman Singapore.
Question 4	Fig. 6 © T. Y. Chun (1997) Understanding Geography, Addison-Wesley Longman Singapore.
Question 4	Fig. 7 © T. Y. Chun (1997) Understanding Geography, Addison-Wesley Longman Singapore.
Question 5	Fig. 9 © Geographical Magazine, April 1993.
Photograph A	S. Sibley © UCLES.
Photograph B	S. Sibley © UCLES.
Photograph C	S. Sibley © UCLES.
Photograph D	S. Sibley © UCLES.

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.

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