

Cambridge IGCSE[™]

CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE NUMBER	

0151517999

GEOGRAPHY 0460/13

Paper 1 Geographical Themes

May/June 2023

1 hour 45 minutes

You must answer on the question paper.

You will need: Insert (enclosed)

Ruler

Calculator Protractor

INSTRUCTIONS

- Answer **three** questions in total, **one** from each section.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do not write on any bar codes.
- If additional space is needed, you should use the lined pages at the end of this booklet; the question number or numbers must be clearly shown.

INFORMATION

- The total mark for this paper is 75.
- The number of marks for each question or part question is shown in brackets [].
- The insert contains additional resources referred to in the questions.

Definitions

MEDCs - More Economically Developed Countries

LEDCs - Less Economically Developed Countries

This document has 32 pages. Any blank pages are indicated.

Section A

Answer one question from this section.

1	(a)		dy Fig. 1.1 (Inse nge between 20		nation about the average	annual rate of population
		(i)	Insert the follow is calculated.	ving words in the equa	tion below to show how	overall population change
			death rate			
			migration			
			birth rate			
				–	+/	overall population change [1]
		(ii)	• •	only, put the following opulation growth betw		according to their average
			Angola	India	Ukraine	USA
			1st		highest growth	
			2nd			
			3rd			
			4th		lowest growth	[2]
	((iii)	Describe the dis	stribution of countries w	vith an increase in popula	tion of between 4.1 to 5%.

(iv)	Describe four problems that many people face in countries where population growth is rapid.
	1
	2
	3
	4
	[4]

(b) Study Fig. 1.2, which shows two important factors which influence birth rates and death rates.





Fig. 1.2

Explain how the availability of education can reduce birth rates in a country.
[3
Explain how improving access to good healthcare can reduce death rates in a country.
[5

Migration from	 to		
	 •••••		
	 •••••		
	 •••••	•••••	

[Total: 25]

2		udy Fig. 2.1 (Insert), which is a map showing part of the Central Business District (CBD) of trare, the capital city of Zimbabwe (an LEDC in Africa).
	(i)	Name an area of open space in the CBD of Harare.
		[1]
	(ii)	Identify from Fig. 2.1:
		the street which is pedestrianised
		a form of public transport which serves the CBD of Harare[2]
	(iii)	Describe the street layout in the area shown on Fig. 2.1.
		[3]
	(iv)	Describe and suggest reasons for the location of the hospital which is shown on Fig. 2.1.
		[4]
		[1]

(b)	Stud	dy Figs. 2.2 and 2.3 (Insert), which are photographs taken in different parts of the CBD of are.
	(i)	Describe three differences between the parts of the CBD shown in Figs. 2.2 and 2.3.
		1
		2
		3
		[3]
	(ii)	Suggest reasons why the shops and services in the CBD of Harare have a large sphere of influence.
		[5]

ļ	Name of urban area

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Section B

Answer **one** question from this section.

3			dy Fig. 3.1 (Insert), which shows information about earthquakes between January and e 2019.
		(i)	What was the magnitude of the earthquake in Costa Rica on 12 May 2019?
			[1]
	(ii)	Identify the name of the country from Fig. 3.1 where the earthquake:
			caused the most deaths
			had the deepest focus. [2]
	(i	ii)	Describe the distribution of earthquakes shown on Fig. 3.1.
			[3]
	(i	v)	Describe the natural processes which cause earthquakes to occur at conservative plate boundaries.
			[4]

(b)	Study Fig. 3.2, Whakaari (White		about a	volcanic	eruption	on

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Fig. 3.2

(i)	Using Fig. 3.2 only , identify three different hazards caused by the eruption of the volcar on Whakaari.	nc
	1	
	2	
	3	[3]

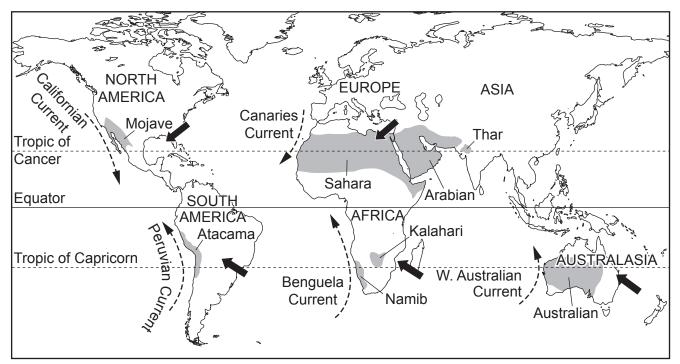
(ii)	Explain the causes of the eruption of the volcano on Whakaari.
	IS.

(c) For a named example you have studied, explain why people live close to a volcar					
	Name of volcano				
	[7]				
	[/]				

[Total: 25]

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4 (a) Study Fig. 4.1, which is a map showing hot deserts.



Key

hot deserts

prevailing winds

--- cold ocean currents

Fig. 4.1

(i)	Name the hot desert which occupies the largest area of land.
	[1]
(ii)	Describe two differences between the locations of the Atacama Desert and the Mojave Desert.
	1
	2
	[2

Describe the global distribution of hot deserts.
[3]
Suggest why the cold ocean current and prevailing winds cause rainfall totals to be low in the Atacama Desert.
cold ocean currents
prevailing winds
[4]

(b) Study Fig. 4.2, which is a diagram showing different cloud types.

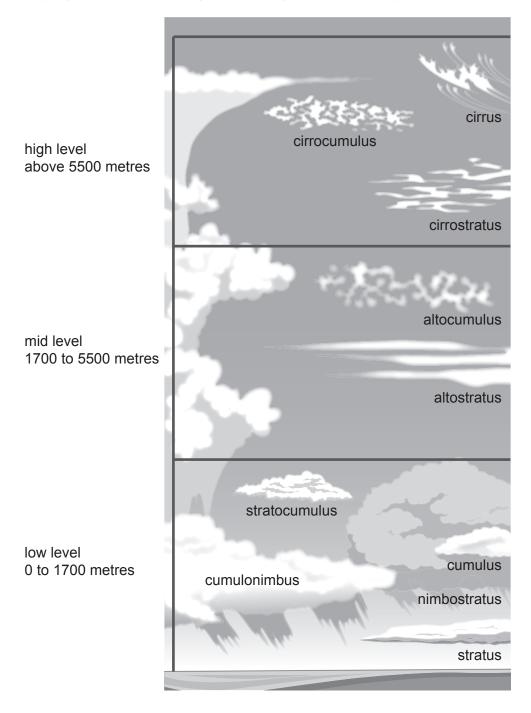


Fig. 4.2

(i)	Using Fig. 4.2 only , compare the characteristics of altostratus and cirrus clouds.	
		[3]
(ii)	Describe the processes which result in the daily formation of cumulonimbus clouds where result in heavy rainfall in equatorial areas.	nich
		[5]

	characteristics of its vegetation.		
I	Name of desert		

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Section C

Answer one question from this section.

5 (a) Study Fig. 5.1, which shows information about the employment structure of Nigeria in 1990, 2005 and 2020, along with Figs. 5.2, 5.3 and 5.4 (Insert), which are photographs of workers in Nigeria (an LEDC in Africa).

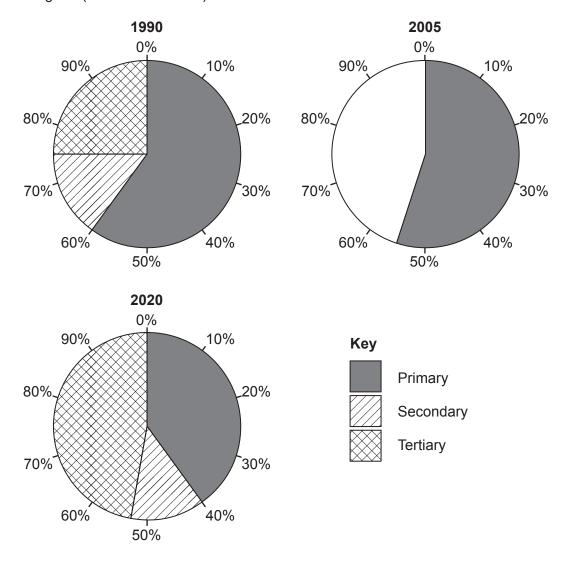


Fig. 5.1

(i) Insert the words below into the correct spaces to identify the sectors of employment shown in Figs. 5.2, 5.3 and 5.4.

Primary	Secondary	Tertiary	
Fig. 5.2			
Fig. 5.3			
Fig. 5.4			[1]

(ii)	Complete Fig	g. 5.1 by plotting the following information for 2005:	
	Secondary	10%	
	Tertiary	35%	2]
(iii)		e changes in the employment structure of Nigeria between 1990 and 202 atistics in your answer.	0.
	1		
	2		
	3		
		[3]
(iv)	Explain the im as Nigeria.	nportance of jobs, such as that shown in Fig. 5.2 (Insert), to an LEDC suc	ch
			•••
		[4]

(b) Study Fig. 5.5, which is a table showing four development indicators for selected countries in Asia

	Human Development Index (HDI)	energy use per person (kg oil equivalent)	access to internet (% of total population)	malnourished children (% of total number of under 5-year-olds)
Bangladesh	0.632	201	15	31
China	0.761	1695	54	8
India	0.645	560	35	35
Indonesia	0.718	850	40	30

Fig. 5.5

(i)	State three pieces of evidence from Fig. 5.5 that show that Indonesia is more developed than India.
	1
	2
	3
	[3]
(ii)	Describe the differences between the Human Development Index (HDI) and Gross National Product (GNP) per capita as indicators of development.
	[5]

You should refer to different places and examples.

6 (a) Study Fig. 6.1, which shows information about the types of energy used for electricity generation in the different states of Australia.

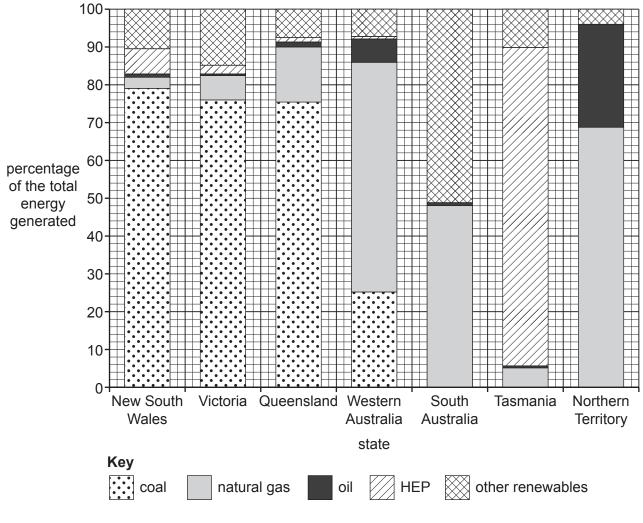


Fig. 6.1

(i)	Which Australian state uses the highest percentage of oil for electricity generation?	
	[1]

(ii) Using Fig. 6.1, put the fuels used for electricity generation in Western Australia in rank order of importance. One has been done for you.

1St	most important	
2nd		
3rd other renewables	3	
4th		
5th	least important	[2

(iii)	Compare the percentage of three different types of energy used for electricity generation in Queensland and Tasmania. Do not use statistics in your answer.
	1
	2
	3
	[3]
(iv)	Suggest reasons for the variation in importance of HEP and other renewable forms of energy in the different states of Australia.
	[4]

(b) Study Fig. 6.2, which shows information about oil and natural gas in Australia.

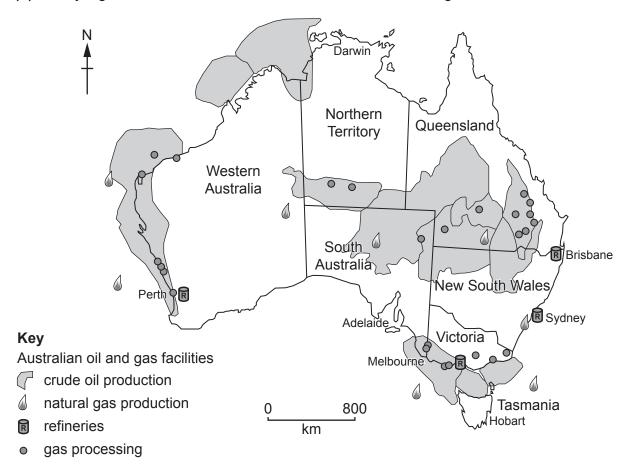


Fig. 6.2

Using Fig. 6.2 only , describe the distribution of crude oil production in Australia.
[3]

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(i)

(ii)	Explain why many countries are reducing their dependence on fossil fuels such a and natural gas.	is oil
		[5]

(c)	For an example you have studied, describe and explain the location of a factory or zone of manufacturing industry.
	Location
	[7]

[Total: 25]

Additional pages

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

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