

Cambridge IGCSE[™]

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GEOGRAPHY 0460/13

Paper 1 Geographical Themes

May/June 2022

1 hour 45 minutes

You must answer on the question paper.

You will need: Insert (enclosed)

Calculator Ruler

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) Study Figs. 1.1, 1.2 and 1.3, which show information about Libya, an LEDC in North Africa.
 - Fig. 1.1 shows information about population density.
 - Fig. 1.2 shows information about rainfall.
 - Fig. 1.3 shows information about temperature.

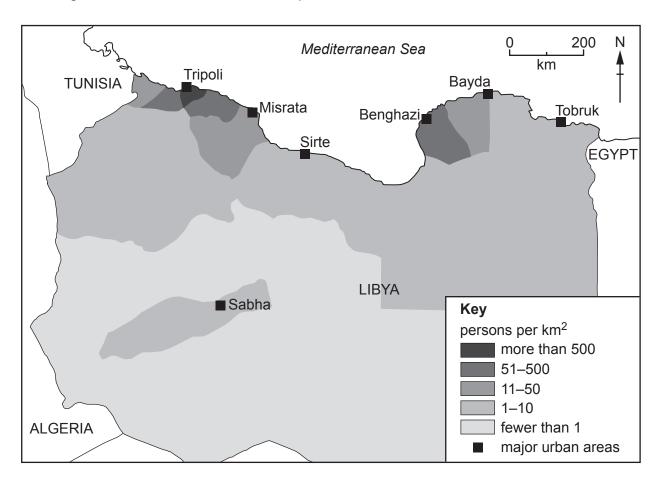


Fig. 1.1

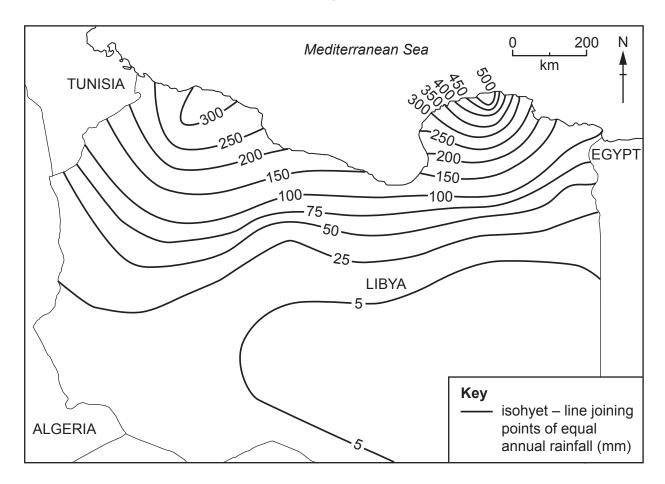


Fig. 1.2

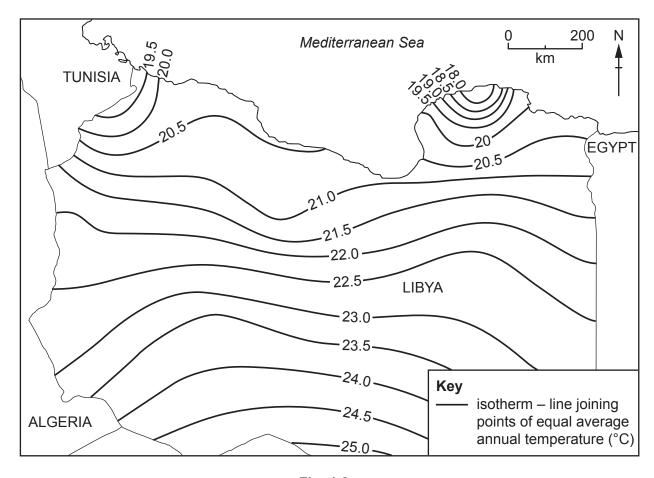


Fig. 1.3

(i)	Mark with an X on Fig. 1.1 the area which is most sparsely populated.	[1]
(ii)	Libya had a population of 6777452 in 2015. The land area is 1760000 km ² . Calculate the population density of Libya. You should show your calculations in the box below.	
	per km ²	
		[2]
(iii)	Using evidence from Figs. 1.1, 1.2 and 1.3 only , suggest how the climate has influenthe distribution of population in Libya.	ced
		[3]
(iv)	Explain the importance of natural resources (e.g. mineral deposits) and transportance influencing population density.	t as
		[4]

(b)		dy Figs. 1.4, 1.5 and 1.6 (Insert), which are photographs showing areas of different ulation density.
	(i)	Identify the photograph which shows:
		- a densely populated rural area
		Fig
		 a sparsely populated rural area
		Fig
		 a densely populated urban area.
		Fig[3]
	(ii)	Some rural areas may be overpopulated. Describe the problems faced by people living in overpopulated rural areas.
		[5]

Name of country

2		dy Fig. 2.1 (Insert), ca).	which is a map of	Lusaka, the c	apital city of Zambia (an	LEDC in
	(i)		ollowing land uses of wer in the list below	•	gest area in Lusaka?	
		business	industry	parks	residential	[1]
	(ii)	Using Fig. 2.1 only			nternational Airport.	
	(iii)	Suggest reasons fo	or the location of the	e industrial area	s in Lusaka.	
	(iv)				led X and Y in Fig. 2.1.	[3]
	(1V)		s between the nous			
						[4]

(b) Study Fig. 2.2, which shows information about amenities in George, an unplanned residential area in Lusaka.

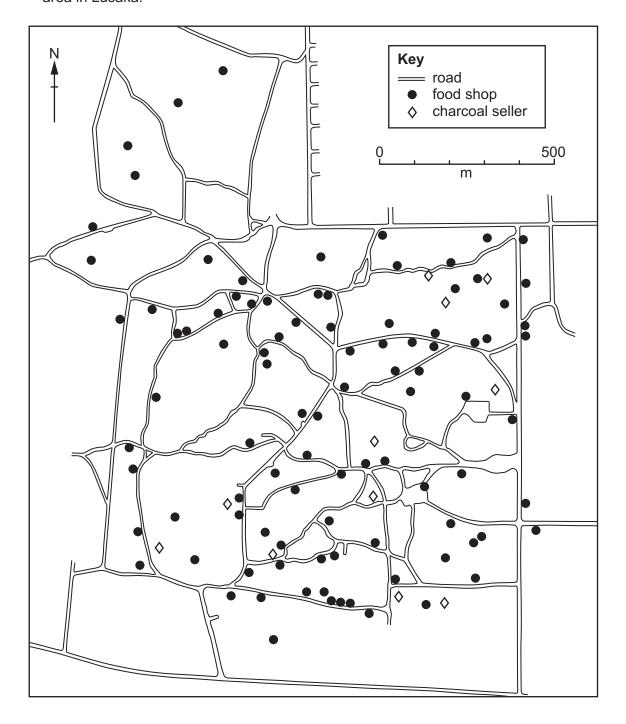


Fig. 2.2

(i)	Compare the distribution of food shops and charcoal sellers.
	[3
(ii)	Explain why people who live in George are only likely to travel short distances to foo shops.
	[5

1	Name of urban area
٠	
•	
٠	
٠	
•	
٠	
•	
•	
٠	

TURN PAGE FOR QUESTION 3

Section B

Answer **one** question from this section.

(ii) Which two of the following can be seen in Fig. 3.1? Tick (✓) the correct statements in the table. tick (✓) bays and headlands
(ii) Which two of the following can be seen in Fig. 3.1? Tick (✓) the correct statements in the table. tick (✓) bays and headlands
Tick (✓) the correct statements in the table. tick (✓) bays and headlands
bays and headlands
delta
mangrove swamps
sand dunes
wave cut platforms

	(iv)	State two benefits and two disadvantages of living close to the coast.	
		Benefits	
		1	
		2	
		Disadvantages	
		1	
		2	
			. [4]
(b)	Stu	dy Fig. 3.2 (Insert), which is a map of Orford Ness, a spit.	
	(i)	Using Fig. 3.2 only, describe three features of Orford Ness.	
		1	
		2	
		3	
			. [3]
	(ii)	Suggest how the spit at Orford Ness was formed.	
			[5]
			. 101

	being managed.
١	Name of area

4 (a) Study Fig. 4.1, which is a map of the River Yangtze drainage basin in China.

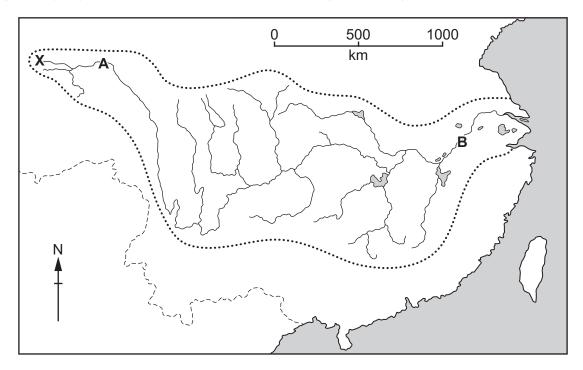


Fig. 4.1

(i) What feature is shown by **X** in Fig. 4.1? Tick (✓) the correct answer in the box below.

	Tick (✓)
delta	
flood plain	
meander	
oxbow lake	
source	

[1]

(ii) On Fig. 4.1 use arrows and labels to mark the following features:

a confluence (label with C)

- the watershed (label with \mathbf{W}).

[2]

Define the following processes by which a river erodes.	
abrasion	
attrition	
hydraulic action	
	[3]
Draw and label two diagrams to show the likely differences between the cross-sec of the valleys at A and B on Fig. 4.1.	ctions
Cross-section at A	
	attrition hydraulic action Draw and label two diagrams to show the likely differences between the cross-sec of the valleys at A and B on Fig. 4.1.

Cross-section at B

			[4]
b)	Stu	dy Fig. 4.2 (Insert), which is a photograph of a waterfall.	ניין
,	(i)	Describe the main features of the waterfall shown in Fig. 4.2.	
			. [3]

(ii)	Explain how and why the waterfall shown in Fig. 4.2 is likely to change in the future.
	re

For a named river you have studied, explain the causes of flooding.
Name of river

Section C

		Answer one question from this section.	
5	(a)	Study Fig. 5.1, which is information about farming and climate around the villages of Cha Jinda and Jullundur, which are in the Punjab state of India (an LEDC).	аk
		omaa ana cananaa, miion ale mane ranjas ciate or maia (am 222 c).	
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		Fin. E 4	
		Fig. 5.1	
		(i) There are both commercial and subsistence farms in the Punjab. What is the difference between a commercial farm and a subsistence farm?	се
		[1]

- sow cotton	(ii)	Using Fig. 5.1, ide	entify a month	n when farme	rs in the Punjab	will:				
(iii) Insert the following words into the table below to show examples of inputs, process and outputs of farms in the Punjab. Choose from the words below. harvesting labour ploughing tractors sugar cane rice inputs processes outputs (iv) Using Fig. 5.1, identify the months when rice and wheat are growing in the Punjab.		– sow cotton								
and outputs of farms in the Punjab. Choose from the words below. harvesting labour ploughing tractors sugar cane rice inputs processes outputs (iv) Using Fig. 5.1, identify the months when rice and wheat are growing in the Punjab.		– harvest millet					[2]			
harvesting labour ploughing tractors sugar cane rice inputs processes outputs (iv) Using Fig. 5.1, identify the months when rice and wheat are growing in the Punjab.	(iii)		Insert the following words into the table below to show examples of inputs, processe and outputs of farms in the Punjab.							
tractors sugar cane rice inputs processes outputs (iv) Using Fig. 5.1, identify the months when rice and wheat are growing in the Punjab.		Choose from the	words below.							
inputs processes outputs (iv) Using Fig. 5.1, identify the months when rice and wheat are growing in the Punjab.		harvesting	labou	r	ploughin	g				
(iv) Using Fig. 5.1, identify the months when rice and wheat are growing in the Punjab.		tractors	sugar	cane	rice					
		inputs		processes		outputs				
							 [3]			
	(iv)									

(b)		udy Fig. 5.2 (Insert), which is a photograph showing an area in eSwatini (an LEDC in Africa) ere soil erosion has taken place.							
	(i)	Suggest how soil erosion may have affected farming in the area shown in Fig. 5.2.							
		[3]							
	(ii)	Describe the methods which can be used by farmers to reduce soil erosion.							
		[5]							

vame (of country	y or region	n	 	 		
				 	 	 	••••

6 (a) Study Fig. 6.1, which shows information about the causes of desertification.

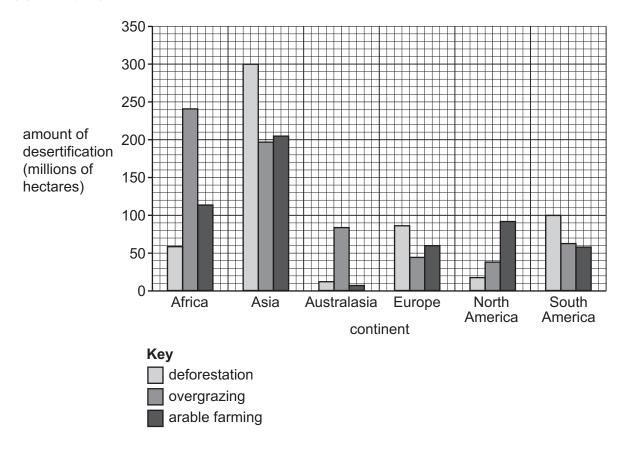


Fig. 6.1

(i)	What is meant by desertification?
	[1]
(ii)	Identify the continent where:
	- most land has been lost to desertification
	- arable farming has been the main cause of desertification [2]
(iii)	Using Fig. 6.1 only , compare the causes of desertification in Africa and Europe. You should not use statistics in your answer.
	[3]

Explain now overgrazing may cause desertification.
ΓΛ

(b) Study Fig. 6.2, which is an article about the world's hottest decade (period of ten years).

2010 to 2019 was the hottest decade on earth, according to recent data which also shows that 2019 was the second-hottest year ever. Nineteen of the hottest twenty years have occurred since 2000.

The annual global surface temperature is now increasing at an average rate of about 0.18 °C per decade and every decade since the 1960s has been warmer than the previous decade.

Greenhouse gas emissions reached a record high in 2019 and the amount of carbon dioxide in the atmosphere is at the highest level ever.

Thirty six countries, from Belize to South Africa, had their hottest year since records began. Many places around the world, including countries such as Switzerland, have had average temperature increases of more than 2 °C over the past century. During December 2019 Australia experienced its hottest-ever day at 41.9 °C and Europe recorded its hottest year ever.

Alaska also had its hottest year on record in 2019 with the ice melting during the winter in the Bering Sea. In the summer the temperature at Alaska's Anchorage International Airport reached over 32 °C for the first time.

Fig. 6.2

(i)	Identify from Fig. 6.2 three different pieces of evidence to support the fact that glowarming is occurring.	obal
	1	
	2	
	3	
(ii)	Explain how human activities are increasing the temperature of the Earth's atmosphere	
		[5]

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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