

GEOGRAPHY PAPER 1 919Cambridge.com 0460/1

1 hour 45 minutes

OCTOBER/NOVEMBER SESSION 2002

Additional materials: Answer paper Ruler

TIME 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/ answer booklet.

Answer any **three** questions.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question. Sketch-maps and diagrams should be drawn whenever they serve to illustrate an answer. Insert 1 contains Fig. 7.

Insert 2 contains Photograph A.

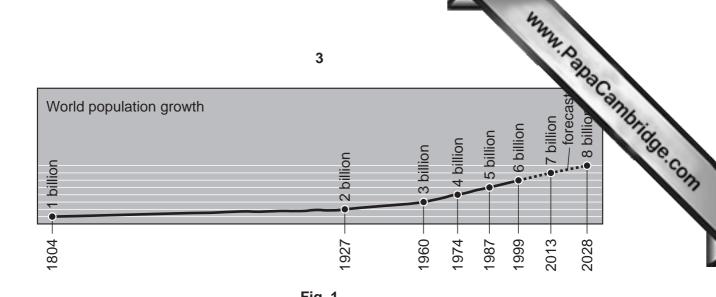
- 2
- 1 (a) Fig. 1 (opposite) provides information on the growth of the world's population and of the likely population growth until the total number of people is 8 billion.
- www.PapaCambridge.com How many years did it take for the world's population to grow from 1 billion to 2 b (i)
 - How many years passed before the population doubled again? (ii)
 - (iii) What does the graph show about the expected future rate of growth of the world's population (beyond 1999)? [1]
 - (b) Study Fig. 2 (opposite).
 - (i) How many more countries in Africa are expected to have a population of over 100 million in 2050 compared with 1998? [2]
 - (ii) Which country is expected to show the biggest growth of population from 1998 to 2050? By how much is it expected to grow? [2]
 - (iii) What does the map show about population changes in
 - the developing countries of the world, Α
 - В the developed countries of the world?
 - (iv) Give reasons for the population changes you have described in each of (b) (iii) A and B. [2,2]

[2]

[2]

- (c) Italy, a developed country in Europe, has an ageing population. There are twice as many people aged 60 years and over than children aged below 10 years. What problems may this cause for the country? [4]
- (d) The number of international migrants increased in the world from 75 million in 1965 to 120 million in 1999.

With reference to named examples you have studied, explain why people migrate from one country to another. [6]





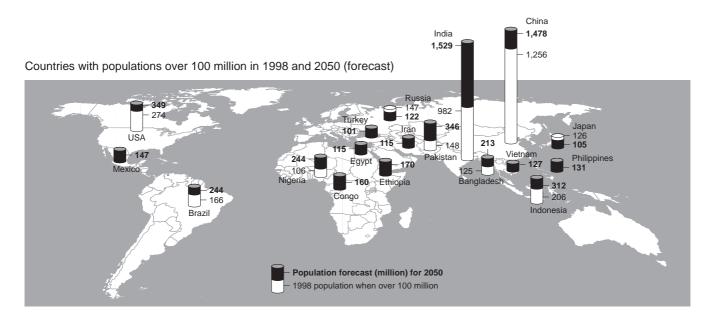
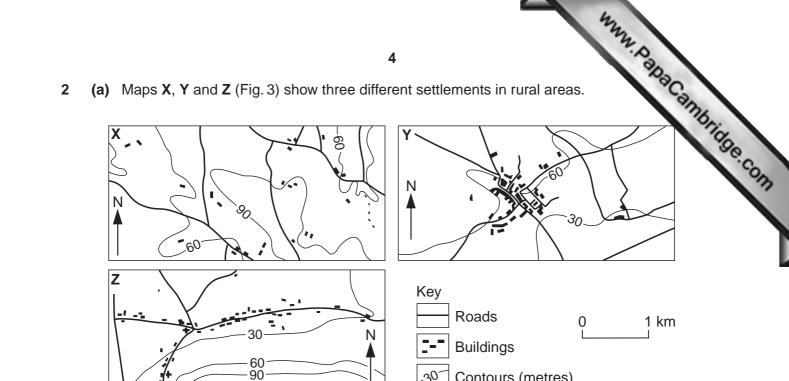


Fig. 2





Write down X, Y and Z as a list and for each

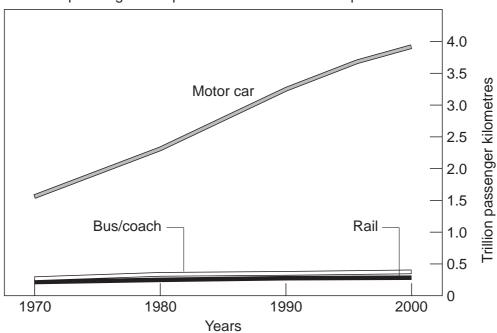
120

(i)	name the type of settlement,	[3]
(ii)	describe the distribution of buildings shown on the map,	[3]
(iii)	give one reason why it might have developed.	[3]

30

Contours (metres)

(b) Fig. 4 shows the development of passenger transport in the countries of Europe over recent years.

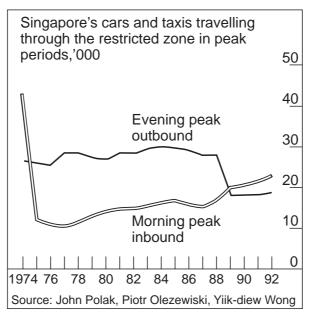


Trends in passenger transport in the countries of Europe 1970-2000

Fig.4

- (i) What does the graph show about the growth of passenger transport?
- www.papaCambridge.com (ii) From information in Fig. 4 and from information you know, explain why traffic co occurs in most large towns and cities throughout the world, especially at certain the the day.
- Fig. 5 shows the results of an attempt to reduce the problem of traffic congestion in (c) (i) Singapore City, a large city in Asia.

The effect of charges on traffic flow in Singapore city



N.B. extra charges on cars and taxis travelling through the central restricted zone in the morning peak period were introduced in the 1970s. These were extended to evening peak traffic in 1989. The restricted zone is the central area of Singapore City.

Fig. 5

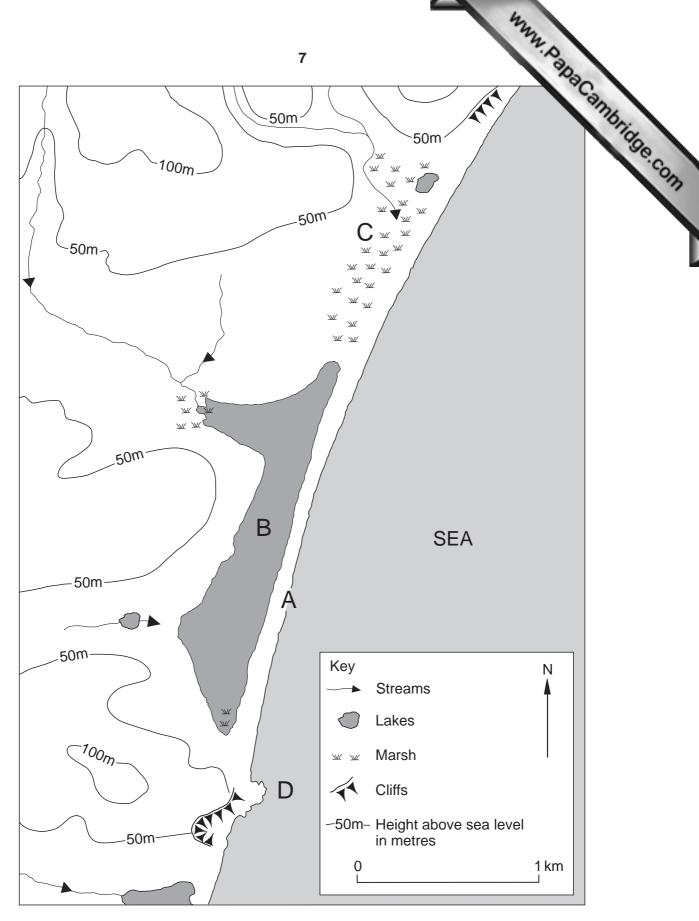
	From the information given, do you think that the attempt has been successful? Give three reasons for your answer.	[3]
(ii)	Describe measures to reduce the problem of traffic congestion in towns and cities, from the one referred to in (c) (i)	apart

[5]

You should refer to examples in your answer.

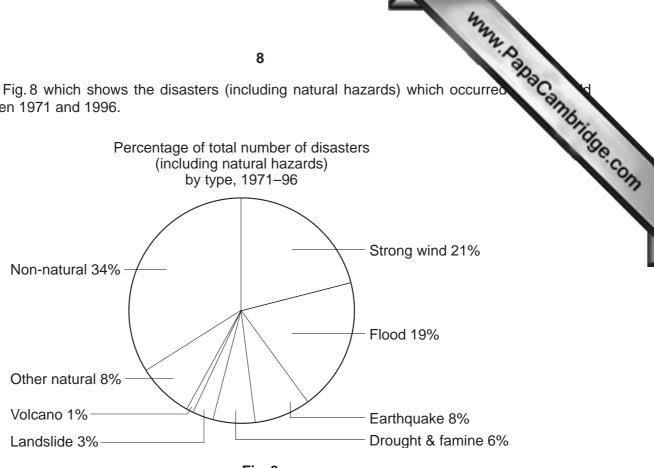
		they want	
		6	
(a) F	Photogra	aph A (Insert 2) and Fig. 6 (opposite) show a stretch of coastline.	
(6 aph A (Insert 2) and Fig. 6 (opposite) show a stretch of coastline. te down A , B , C and D as a list and name the physical features found at each Fig. 6. te the length of the coastline shown on Fig. 6 to the nearest kilometre. the the general shape and direction of the coastline shown on Fig. 6.	ridge
(i	i) Stat	e the length of the coastline shown on Fig. 6 to the nearest kilometre.	Con Con
(ii	i) Des	cribe the general shape and direction of the coastline shown on Fig. 6.	[2]
(iv	v) Des	cribe the shape of the hills and valleys in the area.	[2]
(b) (i) Sug	gest reasons for the formation of features A and B shown on Fig. 6.	[3]
(i	•	ture C was once similar to feature B . State how and suggest why it has developed wn on Fig. 6.	as [2]
(ii	i) Give	e a reason why feature D may have developed.	[1]
(c) Now study Fig. 7 (Insert 1) which shows different speeds of the water as it flows around a river meander.			1 a
(i) Com	nplete the line on Fig.7 which shows the river speed of 20 centimetres per second.	[2]
(i	i) On l seco	Fig. 7, shade the part of the river where the flow is greater than 40 centimetres p ond.	oer [1]
(ii	i) Des	cribe the shape and features of the meander shown in Fig. 7.	[2]
(iv	v) Give	e reasons for the shape and features of the meander you have described in (c) (iii) . [2]
()	v) Why	/ do meanders sometimes develop into ox-bow lakes?	[3]

3





4 Study Fig. 8 which shows the disasters (including natural hazards) which occurred between 1971 and 1996.



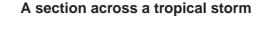


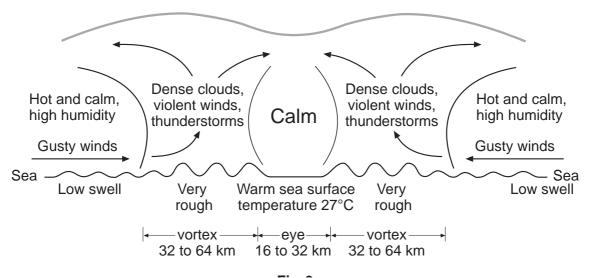
- (a) (i) Which two natural hazards occurred most over the time shown? [2]
 - (ii) Why are some earthquakes more hazardous than others? [3]
 - (iii) For each of A and B, name an area where it may occur and give reasons for your answer.

A earthquakes and volcanoes, B drought.

[3,3]

- (iv) What effects might droughts have upon the lives of people in areas where they occur? [3]
- Fig. 9 shows the main features of a tropical storm. Use information from this diagram to (b) (i) help you to describe three of the main features of a tropical storm. [3]





www.papacambridge.com (ii) Fig. 10 shows a large area affected by river floods in Mozambique in so during February 2000.

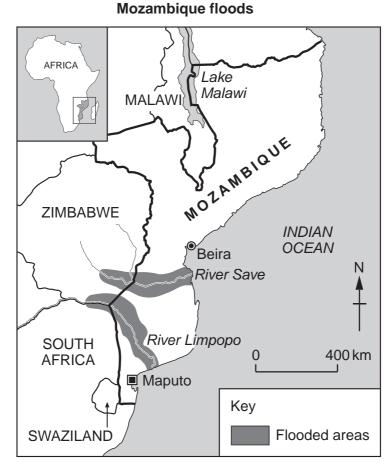


Fig. 10

Describe three causes of river flooding in areas such as Mozambique. [3]

Why is river flooding on the scale seen in Mozambique both difficult to prepare for and so (iii) serious for the people living in the area affected? [5] 5 (a) Study Fig. 11 which gives information about oil production and its use in areas supplying most of the world's oil.

Region I North America, South America, Europe

Region II The Middle East

USED 51	USED 4
PRODUCED	PRODUCED
45	22
DEFICIT	SURPLUS
6	18

www.			
e in areas	apaCa.	nbridge:	
Region III (excluding Middle Eas	Asia the it)	1996	Com
USED 21		·	
PRODUCE 8	ED		D
DEFICIT			

Key Figures in million barrels per day

Fig. 11

- (i) Compare Region I (North America, South America and Europe) with Region II (The Middle East) in terms of
 - A the amount of oil produced,
 - B the amount of oil used,
 - **C** the relationship between **A** and **B**
- (ii) What evidence is there on Fig. 11 to suggest why oil is of great importance in world trade?
- (iii) Why is oil in such great demand throughout the world? [3]
- (iv) Why is oil referred to as a non-renewable fuel and also as a fossil fuel? [2]
- (v) Name two other fossil fuels.
- (b) The newspaper extract opposite (Fig. 12) gives details about a plant (factory) in southern France which processes used nuclear fuel, making some of it into new fuel for nuclear power stations.
 - (i) Study the newspaper article and explain why some people are concerned about this plant. [2]
 - (ii) What other safety concerns do some people have about nuclear power? [2]
 - (iii) Apart from safety factors, describe **two** other factors which influence the siting and location of nuclear power stations. [2]
- (c) What are your views about the development and use of alternative energy sources? You may wish to refer to **one** or **more** of:

hydro-electric power, tidal energy, wind power, wave energy, solar energy, geothermal energy.

[6]

[3]

[2]

10

www.PapaCambridge.com **Earthquake fear for** nuclear plant

11

David Hearst in Paris

The French nuclear safety inspectorate has demanded the closure of a nuclear reprocessing plant in the south of the country because it is built on an earthquake zone which seismologists fear could soon become active.

The last big earthquake in the area was in 1913, but there could be a major earthquake once every hundred years

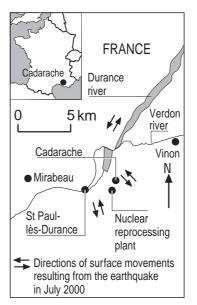
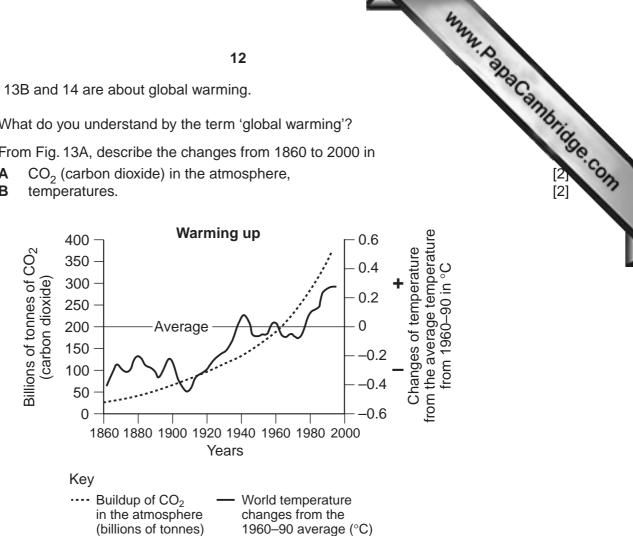


Fig. 12

- 6 Figs 13A, 13B and 14 are about global warming.
 - (a) (i) What do you understand by the term 'global warming'?
 - (ii) From Fig. 13A, describe the changes from 1860 to 2000 in
 - CO_2 (carbon dioxide) in the atmosphere, Α
 - В temperatures.





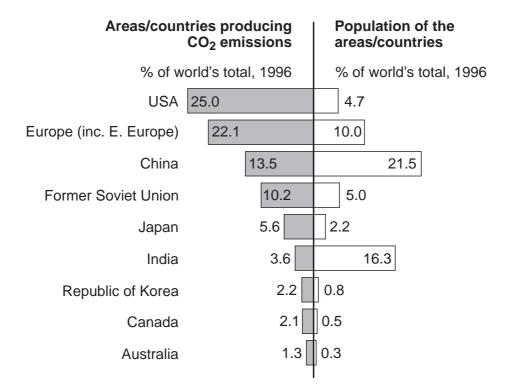
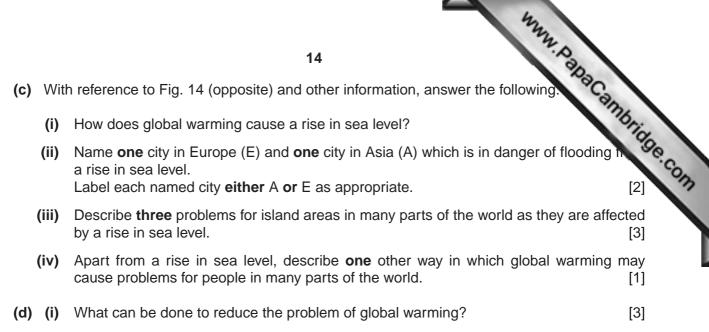


Fig. 13B

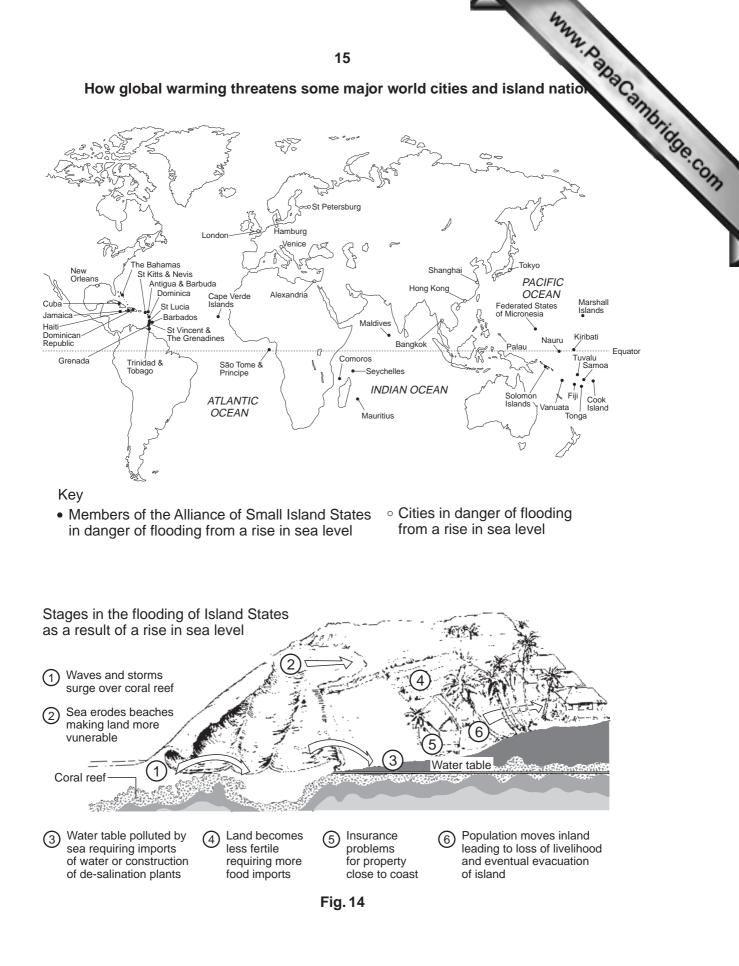
- (b) From Fig. 13B:
 - (i) state the percentage of the world total of CO₂ produced by USA and Europe co
- www.papaCambridge.com (ii) state how the amount of air pollution from the production of CO_2 per person in the US compares with that of India;
 - (iii) suggest why the areas/countries named in Fig. 13B produce more CO₂ than other world areas such as Africa and South America. [2]

(Question 6 continues on page 14)



[4]

(ii) Why is it difficult to reduce global warming?





Copyright Acknowledgements:

Question 1 World and Country Population Charts, published by The Telegraph Group.

Question 2 '© The Economist Newspaper Limited, London. 5 September 1998'

Question 3 Photograph, Paul Prestidge.

- Question 4a '© The Economist Newspaper Limited, London. 6 September 1997'
- Question 4b Fig. 8 Chart by R Bunnett. Physical Geography. Longman Group UK Limited 1973, 1988, reprinted by permission of Pearson Education Limited.
- Question 5a Three Regional Charts of America. Published by The Observer, 3rd September 2000.
- Question 5c Earthquake fear for Nuclear Plant by David Hearst. Published by The Guardian, 19th July 2000.
- Question 6 Charts of Global Warming and CO² emissions. Published by The Guardiean, 10th October 1997.

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