

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

PAKISTAN STU	JDIES		0448/02
CENTRE NUMBER		CANDIDATE NUMBER	
CANDIDATE NAME			

Paper 2 The Environment of Pakistan

May/June 2017 1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler

READ THESE INSTRUCTIONS FIRST

Write your name, Centre number and candidate number in the spaces provided.

Write in dark blue or black pen.

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

DO NOT WRITE IN ANY BARCODES.

Answer any three questions.

The Insert contains Photograph A for Question 1 and Photographs B and C for Question 2.

The Insert is **not** required by the Examiner.

The number of marks is given in brackets [] at the end of each question or part question.



1 (a) (i)	What is meant by ea	ach of the followi	ng terms?			
	A Subsistence cro	p farming				
	B Cash crop farmi					[2]
(ii)	From the list below, crop and one that is	choose one exa	mple of a crop that			
ric	ce sugar cane	oilseeds	vegetables	cotton	wheat	
	Subsistence crop					
	Cash crop					[2]
(iii)	What are the advan	tages and disad	antages of using l	High Yielding	Varieties of cro	ops?
Advantages	}		Disadvantages			

[4]

(b) Study Fig. 1, which shows population growth rates for selected provinces over three time periods.

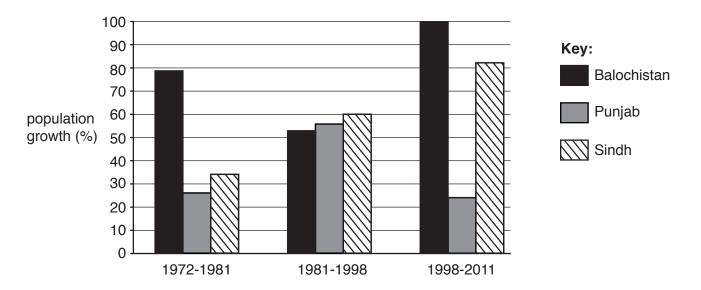


Fig. 1

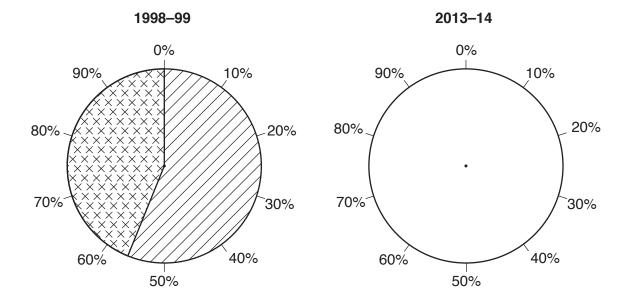
(i)	Α	What was the population growth rate for Punjab between 1972 and 1981?
	В	Which province showed an increase in population growth rate in every period?
		[2]
(ii)	lde	ntify one difference between the population growth rates of Balochistan and Punjab.
		[1]
(iii)		plain two factors which have contributed to population growth in Pakistan. I should develop your answer.
		T.4.1

(c)	Stud	Study Photograph A (Insert).				
	(i)	Describe the type of farming shown in the photograph.				
	[2]					
	(ii)	How is the keeping of buffalo different from the type of farming in Photograph A?				
		[2]				

(d) Read the following two views about increasing food supply in Pakistan:

Development of the livestock sector is the best way to increase the amount of food available in Pakistan. B Increasing crop production and cultivable area is the best way of ensuring there is enough food in Pakistan.
Which view do you agree with more? Give reasons to support your answer and refer to examples you have studied. You should consider both View A and View B in your answer.

2 (a) Study Fig. 2, which shows changes in road type in Pakistan over a 15-year period.



Key:

Metalled

Unmetalled

Fig. 2

(i) Complete the pie chart for 2013-14 by using the following information and the key provided:

Road type	Percent	
Metalled	73	
Unmetalled	27	

[2]

(ii) State the increase in the percentage of metalled roads in Pakistan between 1998–99 and 2013–14.

_____[1

(iii) Suggest two advantages of developing the motorway network in Pakistan.

1

2

.....[2

	(iv)	Explain the difficulties of building roads in the desert areas of Pakistan. You sho develop your answer.	uld
			••••
			.[4]
(b)	Stud	dy Photographs B and C (Insert), which show typical working scenes in rural areas.	
	(i)	Using Photograph B and your own knowledge, describe how bricks are made in ruareas.	ıral
	(ii)		

(c)	(i)	Why is employment in urban areas considered to be more attractive than employme rural areas?	ent in
			[2]
	(ii)	State three pull factors that attract migrants to urban areas other than for work.	
		1	
		2	
		3	
			[3]

(d) It has been proposed that a large integrated iron and steel mill should be built on the outskirts of Rawalpindi, Punjab.

80 km² of land will be cleared for the mill and new infrastructure will be provided to the site by the local authorities. Large amounts of raw materials will be brought onto the site by road or rail and it is planned to produce up to 3 million tonnes of finished steel per year.

Evaluate how the new integrated iron and steel mill will affect the local people of Rawalpindi. Give reasons to support your answer. You should consider both benefits and problems in your answer.
[6]

3 (a) Study Fig. 3, which ranks Pakistan's main trading partners for imports and exports in 2013.

Rank	Origin of imports	Rank	Destination of exports
1	UAE	1	USA
2	China	2	China
3	Saudi Arabia	3	Afghanistan
4	Kuwait	4	UAE
5	India	5	Germany
6	Malaysia	6	UK

Fig. 3

(i)	Name a country which is a main trading partner for both imports and exports.
	[1]
(ii)	For either imports or exports suggest reasons why the countries listed are important trading partners for Pakistan.
	Choice
	101

(b) Study Fig. 4, which shows the amount of coal produced in Pakistan over the period 1980–2012.

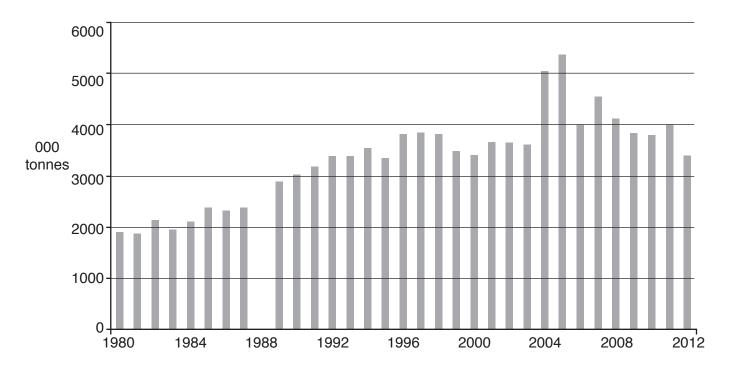


Fig. 4

1			
		The amount of coal produced	

(ii) A Complete Fig. 4, by drawing the bar for 1988. The amount of coal produced in 1988 was 3 million tonnes.

В	In which	year	did	coal	production	peak?
---	----------	------	-----	------	------------	-------

(i) Name two coal producing areas in Pakistan.

.....

C How has coal production changed since its peak? (Circle) the correct answer.

increased decreased stayed the same [3]

	(iii)	Explain why the amount of coal being extracted in Pakistan has changed since its peak You should develop your answer.	ί.
			-
		[4	
(c)	Pak	istan usually has a negative balance of trade.	•
	(i)	What is meant by the term 'balance of trade'?	
		[1]
	(ii)	What are the reasons for having a negative balance of trade?	
			•
		[3	3]
	(iii)	Suggest two effects of a negative balance of trade on the national economy.	
		1	
		2	
		[2	2]

(d)	Evaluate whether using global telecommunications has improved employment opportunities in Pakistan. Give reasons to support your answer and refer to examples you have studied You should consider different points of view in your answer.								
	[6	3]							

4 (a) (i) Study Fig. 5, which shows a diagram of the karez system of irrigation.

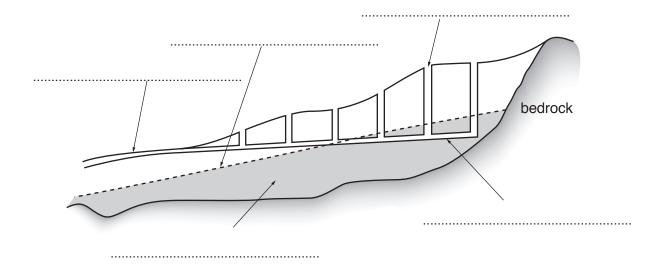


Fig. 5

Choose three terms from the list below and use them to label the diagram in three of the

(ii)	Explain how the use of chemical fertilisers on farms damages the natural environment. You should develop your answer.
Stu	dy Fig. 6, which shows water use by sector in Pakistan in 2008. 0%
	80% 20% Key:
(i)	Fig. 6 A Which sector used least water?
	B How much water was used by the irrigation/livestock sector?
(ii)	Name a type of industry that uses large amounts of water.

(c)

(iii)	About 60% of irrigation water is lost before it reaches crops. Give three reasons irrigation water is lost in this way.	why
	1	
	2	
	3	
		[3]

В

The best way to prevent water shortages in Pakistan is to educate people about

(d) Read the following two views about water shortages in Pakistan:

shortages in Pakistan is to

Α

build more dams and other infrastructure projects. These will store or supply more water.	different methods of saving water. These methods could be carried out in agriculture, industry, and in homes.	
		to
		•••
	infrastructure projects. These will store or supply more water. h view do you agree with more? pples you have studied. You should	infrastructure projects. These

.....[6]

(a) Study Fig. 7, which shows the amount of oil produced in Pakistan and the amount of oil imported, for selected years.

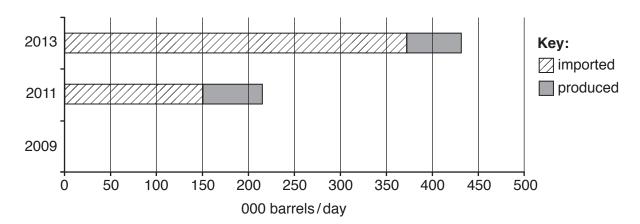


		Fig.	7								
(i)	Name the location of one oil refinery in Pakistan. Give one reason to suggest why it is located there.										
	Location										
	Reason										
				[2]							
(ii)	(ii) Complete Fig. 7 by drawing the bar for 2009, using the information below:										
		2009	Barrels/day								
		Imported	185 000								
		Produced	60 000								
				[1]							
(iii)	years 2011 ar	nd 2013.		imported in Pakistan in the							
				[2]							

(iv) Give to	wo reasons why Pakistan imports large amounts of	oil.	
1			
2			
			[2]
(b) Study Fig.	8, which shows population and electricity productio		
2000–2014			otali otol tilo polico
250		250	
200		- 200	
			electricity
population 150 (millions)		- 150	production (billion kWh)
,		100	(Dillion RVVII)
100		- 100	
50		- 50	Kovi
			Key: —— population
0		-0	electricity production
20	000 2002 2004 2006 2008 2010 2012 20	14	production
	Fig. 8		
	scribe the relationship between population and	electric	ity production from
20	00 to 2008.		
B De	scribe the changes in population and electricity prod	luction si	nce 2008.
			[2]

(ii) Explain why electricity production does not meet the demand for electricity in many parts

	of Pakistan. Yo	u should develo _l	p your answer.			
						[4]
(c) (i)	-	e generated usi ds from the list a	•	•	passage below es provided.	by choosing
Rectangul	ar, solar		are made up of	many solar		
which con	vert the	€	energy from the	sun into elec	trical energy. Th	ey can
be placed	on the	O	f houses and oth	ner buildings.	Large arrays of	solar
panels car	n be sited on the	ground, for exar	mple in deserts.	Solar panels	s should face	
	in o	order to collect a	s much of the s	un's energy a	as possible. Othe	er
solar powe	er systems use th	ne sun to heat w	ater and the		is then	used to
turn a turb	ine.					
	roofs	panels	wind	steam	east	
	h	eat ligh	t south	cells		[3]
(ii)	What are the d	sadvantages of	generating elec	tricity by wav	e and tidal powe	er?
						[3]

(d) Read the following two views about solutions to Pakistan's shortage of energy:

A	В
To produce more energy, large- scale power generation schemes such as nuclear, gas-fired, oil-fired, and multi-purpose HEP (Hydel) power stations should be built.	To produce more energy, small-scal power generation schemes should be set up, such as biogas, wind, and solar power plants.
	tive reasons to support your answer and ref
examples you have studied. You should co	onsider both View A and View B in your answe

Additional Pages

If you numb	ı use er(s) r	the f nust l	ollow be cle	ing li early s	ined showi	page: n.	s to	comp	olete	the	ansv	ver(s)	to	any	ques	tion(s	S), 1	the	que	stion
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