UNIVERISTY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

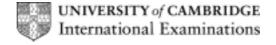
International General Certificate of Secondary Education

RNATIONAL EXAMINATIONS ondary Education

0448 PAKISTAN STUDIES

0448/42 Paper 42

Due to a security breach we required all candidates in Pakistan who sat the paper for 0448/02 to attend a re-sit examination in June 2013. Candidates outside of Pakistan sat only the original paper and were not involved in a re-sit.



CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2013 series

0448 PAKISTAN STUDIES

0448/42

Paper 4 (Environment of Pakistan), maximum raw mark 75

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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		7.
Page 2	Mark Scheme	Syllabus
	IGCSE – May/June 2013	0448

- 1 (a) Study Fig. 1, which shows the climate of Quetta.
 - (i) Describe the annual distribution of rainfall at Quetta.

winter maximum most from December to April second max in July and August none in September

[3]

(ii) State two causes of rainfall at Quetta and name the months when each occurs.

western depressions December to April monsoon July and August

[4]

(iii) What are the maximum and minimum temperatures at Quetta, and when do they occur?

maximum 28 °C July minimum 4 °C January

[2]

(iv) Give <u>two</u> reasons why temperatures are higher in the summer than in the winter at Quetta.

Sun higher in the sky / higher angle of insolation Longer hours of daylight Less cloud

[2]

(b) Explain how underdevelopment and disease can be made worse by water shortages.

underdevelopment (res. 2)

effect on agriculture, livestock, industrial production

disease (res. 2)

lack of cleanliness, sanitation and other hygiene, risk of water-borne disease, malnutrition [6]

				4	1
	Pag	je 3	Mark Scheme	Syllabus	and I
			IGCSE – May/June 2013	0448	200
	(c)	(i)	Name <u>two</u> types of infrastructure other than water s	upply.	e advantages
			roads, railway, electricity, gas pipes, telecommunication	s, buildings	Tage
	(For <u>each</u> of the types of infrastructure named in (and problems of improving it in Balochistan.	c)(i), consider the	e advantages
			Advantages Development of resources		
			Industrialisation		
			Employment Trade		
			Higher living standards		
			Better education		
			Allow development		
			Disadvantages		
			Remoteness		
			Low density of population		
			Large area Allow development		[6]
			•		
					[Total: 25]
2	Stud	ly Fi	ig. 2, which shows a map on the coast of Pakistan.		
	(a)	(i)	Name on the map, <u>two</u> of the ports shown.		
			Any 2 correctly located from Jiwani, Gwadar, Pasni, Ormara, Karachi (or Port Qasim) – from west to ea	st [2]
	(ii)	Name <u>two</u> types of fish caught in the sea near Pakis	tan.	
			shark, croaker, skate, drum, cat fish, rays, sardine (mus	t be marine fish)	[2]
	(b) Study Fig. 3, which shows the contribution to Gross National Product (GNP) of the fishing industry in Pakistan.				
		(i)	What was the contribution to GNP of the fishing ind	ustry in 2010?	
			56 million rupees		[1]
	(ii)	By how much has this figure increased since 2006?		
			38.5 million rupees		[1]
	(i	ii)	What is meant by 'over-fishing'? Why does it occur?	•	
			over-fishing is when more fish are caught than replaced too many fish caught small fish caught	naturally	
			too young to breed caught in breeding season		[3]

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(c) Study Fig. 4, which shows the main districts for fish farming in Pakistan.

(i) Describe the distribution of fish farming in Pakistan.

KPK (NWFP) by rivers from mountains / in foothills Swat, Chitral, Dir, Malakand, Manshera, FATA also Dera Ismael Khan, Kohat, Mardan, Swabi, Abbottabad Punjab – in irrigated areas or where rainfall is sufficient Sheikhpura, Gujranwala, Attock Sindh – on the Indus foodplain Thatta, Badin, Dadu

[3]

(ii) Describe how fish are reared on a fish farm.

clean water fed health care separated according to size etc. removed when big enough to sell

[4]

(d) Give an example of primary, secondary and tertiary employment in the fishing industry.

fisherman / worker on a fish farm factory worker / canner / freezer lorry driver / office worker

[3]

(e) What are the benefits and problems of developing <u>either</u> marine fishing <u>or</u> inland fish farming in Pakistan?

Candidates must choose either marine fishing or fish farming

Advantages

more food more work higher incomes more infrastructure more exports (named) reasons for sustainability

Disadvantages

Old methods / lack of investment Poor infrastructure Lack of education / skills Overfishing Reasons for unsustainability Named pollution Danger of marine fishing

[6]

[Total: 25]

		2.
Page 5	Mark Scheme	Syllabus
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		S

- 3 (a) Study Fig. 5, which shows the climate of Multan.
 - (i) In which months is the temperature above 25°C?

April-October

(ii) What is the maximum rainfall and when does it occur?

61 mm July [1]

- (iii) Cotton is the major cash crop grown in Pakistan. Label on Fig. 5:
 - the month of sowing
 - the months of growth
 - the month of harvest
 - A April and/or May
 - B all months between A and C
 - C October and/or November

[3]

(iv) Explain why the months you have marked for growth have the best climatic conditions for cotton.

Temperature above 25 °C Mild night temperatures / no frost Less rain for harvest 1000 mm rainfall

[4]

- (b) Study Fig. 6, which shows the amount of cotton produced and the area used for this in Pakistan.
 - (i) What was the highest annual production, and in which year did it occur?

Production 14 million bales Year 2006

[1]

(ii) Compare the change in cotton production with the change in area of land used between 2000 and 2010.

Production varies more

Area changes by 0.4 m.ha, production by 5.5 m bales

More detail

Other comparative figures / averages etc.

[3]

(c) How can the government help farmers to grow more cotton?

education training advertising cheap loans machinery on lease co-operatives land consolidation

[6]

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	IGCSE – May/June 2013	0448	Bar
	what extent can the development of cotmily incomes in Pakistan?	tage and small-scale industrie	Da Cambi
IN	FAVOUR		
	nployment		
	women		
	cal demand ernational demand		
	duces migration		
	cal raw materials		
	n use waste materials, e.g. rubber, rope v set-up costs / investment		
IOV	v set-up costs / investment		
BL			
	oor quality nild labour		
	ck of infrastructure etc.		ı
			[Total: 2
(a) (i)	State what is meant by 'renewable energy	r' and give an example.	
	does not run out, e.g. wind, solar, HEP, wave etc.		Ī
			!
(ii)	Name a fossil fuel, and explain why it is n	on-renewable.	
	coal, oil, natural gas		
	formed millions of years ago, taken out of gro	ound	İ
(iii)	Explain how fossil fuels cause		
(,	- air pollution		
	 land pollution 		
	A air pollution		
	Create CO2, smoke, smell		
	B land pollution		
	Mining, quarrying, oil spills		

(i) State the percentages of gas and oil used for electricity production.

[2]

[1]

gas 30

oil 40

fertiliser

(ii) Which user takes 15% of gas?

Α

				Syllabus 0448 O448 O448 Sed in the home.	
Pag	ge 7	7	Mark Scheme	Syllabus	
			IGCSE – May/June 2013	0448	
((iii)	Whi	ch user takes 50% of oil?	ann	
		trans	sport		800
((iv)	Ехр	lain why a larger percentage of gas <u>than oil</u> is us	sed in the home.	1
		trans reac	aper e in Pakistan sported in pipes thes other areas in cylinders / compressed gas needed for other uses, e.g. transport		[3]
(c)	Stu	ıdy F	ig. 8, which shows the usage of coal mined in Pa	ıkistan.	
	(i)	Nan	ne the industry A which uses a large amount of c	oal produced in Pakistan.	
		brick	k making		[1]
	(ii)	Why	is only a small percentage of coal used for elec	tricity generation?	
		low	quality		[1]
(d)		_	one type of renewable energy. Explain where n would be for its development.	e the most suitable areas	in
	Sol Wir HE Bio	ar – c nd – c P – m mass	dit for named type) deserts, sunshine, lack of cloud coast or mountains, stronger winds nountains, deep valleys, more rainfall s – e.g. bagasse from sugar cane factory, other farm along coast	waste, e.g. straw	
			along coast		[4]
(e)			why it is important to supply electricity to rural sible.	areas. Consider to what exte	ent
	Agi Sm Sta Info	all sc ndard	ral machinery / processing, e.g. milling ale industries d of living ion technology		

[6]

[Total: 25]

Education Healthy living

Potential of renewable sources

BUT cost of technology, maintenance, need?

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- 5 (a) Study Fig. 9 (insert), which shows the main towns and cities in the Punjab pro
 - (i) Name the cities A, B, C, and state the size of their population.

A – Lahore 4–6 million B – Faisalabad 2–4 million C – Multan 1–2 million

[6]

(ii) Describe the distribution of towns and cities with a population of over 50 000.

Mostly in the east / central area
Where the tributaries are / Chenab, Sutlej, Ravi, Jehlum
Few in south / near Sindh
Few in north-west (except Islamabad/Rawalpindi) / near KPK

[3]

- (b) Study Fig. 9 again.
 - (i) Name an area with a population density below 50 persons per square kilometre.

Any area coloured light or mid-green, e.g. Chitral, Tharparkar, Balochistan

[1]

(ii) With reference to <u>physical factors only</u>, explain why the area that you have named in (b)(i) has a low population density.

Shortage of rain rivers Extreme temperatures Mountains / plateaux, steep slopes Lack of soil / stony / barren

[4]

- (c) In the last 50 years there has been a big increase in the proportion of people living in urban areas.
 - (i) Name two push factors that cause people to migrate from rural to urban areas.

Any two of the following:

poverty

unemployment

hunger

poor housing

poor services, e.g. education, health

poor infrastructure, e.g. roads, electricity

natural disasters, e.g. floods

disease

danger, e.g. tribal unrest, Taliban

[1]

(ii) Explain <u>each</u> of the factors you named in (c)(i).

Explanation of above,

e.g. poverty because of lack of land, high rents, large families unemployed because of mechanisation, lack of skills natural disasters, e.g. ref. to floods in 2010, earthquake etc.

[4]

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(iii) Explain <u>two</u> problems experienced by migrants from rural areas when to urban areas.

Housing – shortage, expensive, poor standard Work – shortage, unskilled, lack of contacts

Food – shortage, unhealthy

Health – shortage of clinics/hospitals, poor living standards, overcrowding

[6]

[Total: 25]