

UNIVERISTY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary 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.



UNIVERSITY of CAMBRIDGE International Examinations

### 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.

Page 2	2		Mark Scheme	Syllabus	Paper
		IGCS	E – May/June 2013	0448	42
(a) Stu	ldy Fig. 1,	which show	s the climate of Quetta.		
(i)	Describe	the annual o	distribution of rainfall at Q	uetta.	
		December t ax in July an	•		[3]
(ii)	State <u>two</u>	causes of r	ainfall at Quetta and name	e the months when ea	ch occurs.
	western de monsoon	epressions	December to April July and August		[4]
(iii)	What are occur?	the maxim	um and minimum tempera	atures at Quetta, and	when do they
	maximum minimum	28 °C Jul 4 °C Janu	-		[2]
(iv)	Give <u>two</u> Quetta.	reasons wh	y temperatures are higher	in the summer than	in the winter at
		urs of daylig	higher angle of insolation ht		[2]

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

<u>underdevelopment (res. 2)</u> effect on agriculture, livestock, industrial production

<u>disease (res. 2)</u>

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

	Ра	ge 3	6	Mark Scheme	Syllabus	Paper
				IGCSE – May/June 2013	0448	42
	(c)	(i)	Nam	e <u>two</u> types of infrastructure other than water	supply.	
			road	s, railway, electricity, gas pipes, telecommunication	ons, buildings	[2]
		(ii)		each of the types of infrastructure named ir problems of improving it in Balochistan.	ו (c)(i), consider the	advantages
			Deve Indus Emp Trad High Bette Allov	er living standards er education / development		
			Rem	<u>dvantages</u> oteness		
			Larg	density of population e area		[0]
			Allov	/ development		[6]
						[Total: 25]
2	Stu	dy F	Fig. 2,	which shows a map on the coast of Pakistan.		
	(a)	(i)	Nam	e on the map, <u>two</u> of the ports shown.		
			-	2 correctly located from ni, Gwadar, Pasni, Ormara, Karachi (or Port Qasi	m) – from west to east	[2]
		(ii)	Nam	e <u>two</u> types of fish caught in the sea near Pak	istan.	
			shar	،, croaker, skate, drum, cat fish, rays, sardine (m	ust be marine fish)	[2]
	(b)		-	g. 3, which shows the contribution to Grosendustry in Pakistan.	s National Product (	GNP) of the
		(i)	Wha	t was the contribution to GNP of the fishing ir	ndustry in 2010?	
			56 m	illion rupees		[1]
		(ii)	By h	ow much has this figure increased since 2006	3?	
			38.5	million rupees		[1]
		(iii)	Wha	t is meant by 'over-fishing'? Why does it occu	ır?	
			too r	fishing is when more fish are caught than replace nany fish caught I fish caught	ed naturally	
				oung to breed ht 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

[3]

[4]

#### (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

Sindh – on the Indus foodplain

Thatta, Badin, Dadu

# (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

<u>Advantages</u> more food more work higher incomes more infrastructure more exports (named) reasons for sustainability

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

[6]

[Total: 25]

Page	5	Mark Scheme	Syllabus	Paper
		IGCSE – May/June 2013	0448	42
(a) St	udy Fi	ig. 5, which shows the climate of Multan.		
(i)	In w	hich months is the temperature above 25°C?		
	April	–October		[1]
(ii)	Wha	at is the maximum rainfall and when does it occu	ır?	
	61 m	nm July		[1]
(iii)	– the – the	ton is the major cash crop grown in Pakistan. La e month of sowing e months of growth e month of harvest	bel on Fig. 5:	
	В	April and/or May all months between A and C October and/or November		[3]
(iv)		lain why the months you have marked for <u>o</u> ditions for cotton.	<u>irowth</u> have the	e best climatio
	Mild Less	perature above 25 °C night temperatures / no frost s rain for harvest ) mm rainfall		[4]
	udy Fi kistar	ig. 6, which shows the amount of cotton produc n.	ed and the area	used for this in
(i)	Wha	at was the highest annual production, and in whi	ich year did it oc	cur?
		luction 14 million bales r 2006		[1]
(ii)	Con betv	npare the change in cotton production with the c veen 2000 and 2010.	change in area o	f land used
	Area	duction varies more a changes by 0.4 m.ha, production by 5.5 m bales e detail		
	Othe	er comparative figures / averages etc.		[3]
(с) Но	ow car	n the government help farmers to grow more cot	tton?	
tra ad ch ma	ucation ining vertisin eap loa achine opera	ng ans ry on lease		

[6]

land consolidation

Page 6	Mark Scheme	Syllabus	Paper
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(d) To what extent can the development of cottage and small-scale industries improve family incomes in Pakistan?

IN FAVOUR
employment
for women
local demand
international demand
reduces migration
local raw materials
can use waste materials, e.g. rubber, rope
low set-up costs / investment

(b)

BUT Poor quality Child labour Lack of infrastructure etc. [6]

[Total: 25]

#### 4 (a) (i) State what is meant by 'renewable energy' and give an example.

	does not run out, e.g. wind, solar, HEP, wave etc.	[2]
(ii)	Name a fossil fuel, and explain why it is non-renewable.	
	coal, oil, natural gas formed millions of years ago, taken out of ground	[2]
(iii)	Explain how fossil fuels cause – air pollution – land pollution	
	A air pollution Create CO2, smoke, smell B land pollution Mining, quarrying, oil spills	[2]
Stu	udy Fig. 7, which shows gas and oil usage in Pakistan.	
(i)	State the percentages of gas and oil used for electricity production.	
	A gas 30 B oil 40	[2]

	В	oil	40		
(ii)	Wh	ich	user takes 15% of gas?		

fertiliser [1]

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(iii)	Whi	ch user takes 50% of oil?		
	trans	sport		
(iv)	Ехр	lain why a larger percentage of gas <u>than oil</u> is u	sed in the home.	
	chea	aper		
		e in Pakistan sported in pipes		
	reac	hes other areas in cylinders / compressed gas		
	less	needed for other uses, e.g. transport		
(c) Stu	u <mark>dy</mark> Fi	g. 8, which shows the usage of coal mined in P	akistan.	
(i)	Nam	ne the industry A which uses a large amount of	coal produced in	Pakistan.
	brick	x making		
(ii)	Why	is only a small percentage of coal used for ele	ctricity generatio	n?
	low	quality		
So Wi HE Bic Wa	lar – d nd – c P – m omass ave – a	lit for named type) leserts, sunshine, lack of cloud oast or mountains, stronger winds ountains, deep valleys, more rainfall – e.g. bagasse from sugar cane factory, other farm along coast	ו waste, e.g. straw	,
TIC	iai –	along coast		
	nlain	why it is important to supply electricity to rural	areas. Consider	to what ext
• •	s pos	sible.		
it i Tul Ag Sm Sta Info Ed	s pos bewell ricultu nall sc andarc	ls ral machinery / processing, e.g. milling ale industries I of living on technology n		

Potential of renewable sources

BUT cost of technology, maintenance, need?

[Total: 25]

[6]

Page 8			Mark Scheme		Syllabus	Paper	
		IGCSE – May/June 2013 0448 42				42	
(a)	<ul><li>(a) Study Fig. 9 (insert), which shows the main towns and cities in the Punjab province.</li><li>(i) Name the cities A, B, C, and state the size of their population.</li></ul>						
		B – I	Lahore Faisalabad Multan	4–6 million 2–4 million 1–2 million			[6]
(	(ii)	Des	cribe the di	stribution of towns	and cities with a	population of ov	er 50 000.
		Whe Few	ere the tributa in south / ne	st / central area aries are / Chenab, s ear Sindh st (except Islamabao			[3]
(b)	Stu (i)	2	g. 9 again. Ne an area w	vith a population d	ensity below 50 pe	ersons per squar	e kilometre
	(1)	Ivan	ie all alea w		ensity below 50 pe	ersons per squar	e kilometre.
				ed light or mid-greer parkar, Balochistan			[1]
	(ii)			to <u>physical factors</u> w population dens		y the area that yo	ou have named
		Extre	rtage of rain rive eme tempera	rs atures			
			c of soil / sto	eaux, steep slopes ny / barren			[4
		he la an ar		there has been a	big increase in the	e proportion of <b>p</b>	people living ir
	(i)	Nam	ne two <u>push</u>	factors that cause	e people to migrate	e from rural to ur	ban 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

#### (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]

[1]

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## (iii) Explain <u>two</u> problems experienced by migrants from rural areas when they reach 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]