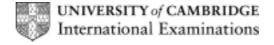
UNIVERISTY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

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.



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.

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2013	0448	42

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]

Page 3		3	Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2013	0448	42
(с) (i)	Nan	ne <u>two</u> types of infrastructure other than water s	upply.	
		road	ds, railway, electricity, gas pipes, telecommunication	s, buildings	[2]
	(ii)		<u>each</u> of the types of infrastructure named in (problems of improving it in Balochistan.	c)(i), consider tl	ne advantages
		Development of the Development o	antages elopment of resources estrialisation eloyment de ner living standards er education		
			w development		
		Rem Low Larg	advantages noteness density of population ge area		
		Allo	w development		[6]
					[Total: 25]
2 St	tudy l	Fig. 2	, which shows a map on the coast of Pakistan.		
(a) (i)	Nan	ne on the map, <u>two</u> of the ports shown.		
		•	2 correctly located from ani, Gwadar, Pasni, Ormara, Karachi (or Port Qasim) – from west to e	ast [2]
	(ii)	Nan	ne <u>two</u> types of fish caught in the sea near Pakis	tan.	
		shar	rk, croaker, skate, drum, cat fish, rays, sardine (mus	t be marine fish)	[2]
(b	(b) Study Fig. 3, which shows the contribution to Gross National Product (GNP) of the fishing industry in Pakistan.				t (GNP) of the
	(i)	Wha	at was the contribution to GNP of the fishing ind	ustry in 2010?	
		56 n	nillion rupees		[1]
	(ii)	By ł	now much has this figure increased since 2006?		
		38.5	million rupees		[1]
	(iii)	Wha	at is meant by 'over-fishing'? Why does it occur?	•	
		too r sma too y	r-fishing is when more fish are caught than replaced many fish caught Il fish caught young to breed ght in breeding season	naturally	[3]
		Jaul	grit in brooding souson		[0]

Page 4	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2013	0448	42

(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]

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2013	0448	42

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

April–October [1]

(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]

<u>Р</u> а	ige 6	Mark Scheme	Syllabus	Paper
		IGCSE – May/June 2013	0448	42
(d)		what extent can the development of cottagnily incomes in Pakistan?	e and small-scale indus	stries improv
	em for loca inte red loca can low	FAVOUR ployment women al demand ernational demand uces migration al raw materials use waste materials, e.g. rubber, rope set-up costs / investment		
	Chi	i or quality Id labour ok of infrastructure etc.		[(
				[Total: 2
(a)	(i)	State what is meant by 'renewable energy' ar	nd 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 groun	d	[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		[;
/ls\	Stu	ldy Fig. 7, which shows gas and oil usage in P	Pakistan.	
(D)				

A gas 30 B oil 40

fertiliser [1]

[2]

Page 7	Mark Scheme	Syllabus	Paper
•	IGCSE – May/June 2013	0448	42
(iii)	Which user takes 50% of oil?		
	transport		I
(iv)	Explain why a larger percentage of gas the	<u>ıan oil</u> is used in the hom	e.
	cheaper more in Pakistan transported in pipes reaches other areas in cylinders / compresso	ed gas	
	less needed for other uses, e.g. transport		
(c) Stu	dy Fig. 8, which shows the usage of coal r	nined in Pakistan.	
(i)	Name the industry A which uses a large a	mount of coal produced	in Pakistan.
	brick making		
(ii)	Why is only a small percentage of coal us	sed for electricity genera	tion?
	low quality		
Pak (NO Sola Win	ne <u>one</u> type of renewable energy. Expistan would be for its development. credit for named type) ar – deserts, sunshine, lack of cloud d – coast or mountains, stronger winds – mountains, deep valleys, more rainfall	lain where the most s	uitable areas
Bior Wav	mass – e.g. bagasse from sugar cane factory ve – along coast al – along coast	, other farm waste, e.g. str	aw
	lain why it is important to supply electric possible.	ity to rural areas. Consid	er to what exte
Agri	ewells cultural machinery / processing, e.g. milling all scale industries		
	ndard of living		

Information technology Education Healthy living

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

- 5 (a) Study Fig. 9 (insert), which shows the main towns and cities in the Punjab province.
 - (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]

Page 9	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2013	0448	42

(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]