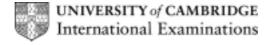
## **UNIVERISTY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**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	.0	ľ
	IGCSE – May/June 2013	0448	100	

- 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]

			3	2
	Pa	ige 3	Mark Scheme Syllabus	Tax V
			IGCSE – May/June 2013 0448	ADC.
	(c)	(i)	Name <u>two</u> types of infrastructure other than water supply.	e advantages
			roads, railway, electricity, gas pipes, telecommunications, buildings	The
		(ii)	For <u>each</u> of the types of infrastructure named in (c)(i), consider th and problems of improving it in Balochistan.	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]
			Allow development	[0]
				[Total: 25]
2	Stu	ıdy F	Fig. 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 Pakistan.	
			shark, croaker, skate, drum, cat fish, rays, sardine (must be marine fish)	[2]
	(b)		audy Fig. 3, which shows the contribution to Gross National Product shing industry in Pakistan.	(GNP) of the
		(i)	What was the contribution to GNP of the fishing industry in 2010?	
			56 million rupees	[1]
		(ii)	By how much has this figure increased since 2006?	
			38.5 million rupees	[1]
		(iii)	What is meant by 'over-fishing'? Why does it occur?	
			over-fishing is when more fish are caught than replaced naturally too many fish caught small fish caught too young to breed caught in breeding season	[3]
			<b></b>	[-1

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Page 4	Mark Scheme	Syllabus	1.0
	IGCSE – May/June 2013	0448	12

### (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

(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]

[3]

(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	· 03 V
	IGCSE – May/June 2013	0448	100
	-		AV 4

- 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]

[2]

[1]

			www.xtrapaper
Р	age		Syllabus
		IGCSE – May/June 2013	0448
(d		what extent can the development of cottage and small nily incomes in Pakistan?	Syllabus 0448  I-scale industries
	em for loc inte rec loc car	FAVOUR apployment women cal demand cernational demand duces migration cal raw materials n use waste materials, e.g. rubber, rope of set-up costs / investment	
	Po Ch	or quality ild labour ck of infrastructure etc.	[6]
			[Total: 25]
4 (a	) (i)	State what is meant by 'renewable energy' and give an ex	xample.
		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]
(b	) Stı	udy Fig. 7, which shows gas and oil usage in Pakistan.	
	(i)	State the percentages of gas and oil used for electricity p	production.

A gas 30 B oil 40

fertiliser

(ii) Which user takes 15% of gas?

rapapers.com

		2.
Page 7	Mark Scheme	Syllabus
	IGCSE – May/June 2013	0448
(iii) Whi	ch user takes 50% of oil?	Car.

transport

(iv) Explain why a larger percentage of gas than oil is used in the home.

cheaper more in Pakistan transported in pipes reaches other areas in cylinders / compressed gas less needed for other uses, e.g. transport

[3]

- (c) Study Fig. 8, which shows the usage of coal mined in Pakistan.
  - (i) Name the industry A which uses a large amount of coal produced in Pakistan.

brick making [1]

(ii) Why is only a small percentage of coal used for electricity generation?

low quality [1]

(d) Name one type of renewable energy. Explain where the most suitable areas in Pakistan would be for its development.

(NO credit for named type)

Solar - deserts, sunshine, lack of cloud

Wind – coast or mountains, stronger winds

HEP - mountains, deep valleys, more rainfall

Biomass – e.g. bagasse from sugar cane factory, other farm waste, e.g. straw

Wave – along coast

Tidal – along coast [4]

(e) Explain why it is important to supply electricity to rural areas. Consider to what extent it is possible.

**Tubewells** Agricultural machinery / processing, e.g. milling Small scale industries Standard of living Information technology Education Healthy living

Potential of renewable sources

BUT cost of technology, maintenance, need? [6]

[Total: 25]

Page 8	Mark Scheme	Syllabus	.0	ľ
	IGCSE – May/June 2013	0448	100	

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 each 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	1 S
	IGCSE – May/June 2013	0448	82

# (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]