UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Ordinary Level

MARK SCHEME for the June 2005 question paper

2059 PAKISTAN STUDIES

2059/02

Paper 2 (The Environment of Pakistan), maximum mark 75

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GCE O LEVEL

MARK SCHEME

MAXIMUM MARK: 75

SYLLABUS/COMPONENT: 2059/02

PAKISTAN STUDIES
The Environment of Pakistan

Pa	ge 1	Mark Scheme P	aper
		GCE O LEVEL – JUNE 2005	2
1 (a)	(i)	Mark Scheme GCE O LEVEL – JUNE 2005 Name the city A Karachi Name the line of latitude B Tropic of Cancer/23½° N	And Andrews
	(ii)	Name the line of latitude B Tropic of Cancer/23½° N	oridge
	(iii)	Name the river C Dasht	[1]
	(iv)	Name the area D Indus delta/Thatta district	[1]
	(v)	Name the province E Balochistan	[1]
(b)	(i)	What type of forest grows in the area F on Fig. 1? Mangrove	[1]
	(ii)	Why is this type of forest only found in this area? Saline soil/salt water in soil Tidal regular flooding Trees are adapted to this environment/have aerating roots/roots filter salt/salt secreted	[2]
	(iii)	The area of this forest has decreased in size in recent years. How and we this affected the local fisheries?	hy has
		How (Res 1) Fewer fish	
		Why (Res 1) Roots provide shelter for young fish Less food	
		Breeding ground 2 @ 1	[2]
(c)		Kaghan Valley and others in the Himalaya Mountains attract internation lestic tourists.	nal and
	(i)	Explain why tourists visit these valleys. Views of mountain peaks, snow, waterfalls, etc. Forests/orchards Fishing in River Kunhar Saiful Maluk Lake Jeep rides Walking/hiking/climbing/mountaineering/picnics Unique area/nothing like it anywhere else Polo Flora/fauna	
		Cooler climate than plains Traditional crafts/customs/lifestyle/cottage industries etc.	[3]

Page 2	Mark Scheme Paper
	GCE O LEVEL – JUNE 2005
(ii)	Explain with reference to <u>two</u> examples, why tourists visit cultural in Pakistan.
	Pakistan. Examples Credit any two examples of cultural tourist attractions (res 2) and (max 2)
	Archaeological sites Moen-jo-darn, Harappa, Taxila,

Explain with reference to two examples, why tourists visit cultural (ii) Pakistan.

Examples

Archaeological sites

Moen-jo-darn, Harappa, Taxila, Kashmir Smats (caves) in NWFP etc.

Historic and religious sites

Forts (Baltit), Lahore

Mosques (Badshabi, Muhabat),

Tombs (Chaukandi, Makli, Allarma Igbal, Ranjit Singh),

Shrines (Uch Sharif)

Khyber Pass,

Shalimar Gardens,

Kalash Valley

Swat area

etc.

Modern buildings

Faisal mosque, Parliament building, Presidential palace,

Jinnah mausoleum, Minar-Pakistan,

NOT dams, reservoirs etc.

Named/Located example of traditional culture

Swat, Gilgit, Kalash, Kaghan valleys

Named/Located Festival

Basant panchmi – kite flying at Lahore

Mela chiragan – festival of lamps beside Shalimar gardens

Named/Located Bazaar or Market

Anaskali, Chitral, Swat, Kalash, etc.

Why they visit

Historic interest

Museum

Religious faith

Education

Different culture to their own

Candidates can gain 2 marks without examples.

Page 3	Mark Scheme Paper
	GCE O LEVEL – JUNE 2005
(d)	Explain the advantages of developing tourist attractions in Pakistal Foreign exchange/currency
	Reduced debt
	More jobs + development
	Higher incomes to locals + dev
	Better local economy/demand for more services Better facilities, infrastructure, services, communications for locals (up to 2 marks)

Explain the advantages of developing tourist attractions in Pakistan (d)

(up to 2 marks)

Better cultural understanding

Sustainable industry/will not run out like coal

Reduces rural-urban migration

Cultural/historic sites restored/maintained

[4]

(e) Why is capital important in the development of tourism?

Building and maintenance of shops, hotels, etc.

Security

Travel facilities/roads/jeeps/buses, etc.

Provision of **named** infrastructure

Professional management

Marketing and publicity/advertising

etc.

	The state of the s	
Page 4	Mark Scheme GCE O LEVEL – JUNE 2005 Paper 2	
2 (a) (i)	Mark Scheme GCE O LEVEL – JUNE 2005 Compare the amount, and seasonal distribution of rainfall at Quetta Q winter max, L summer max Q max December to March/February, L max July to August/August Q second wet month July, L second wet season January to March Q lower total than L/L higher total than Q Q more in December than L Equal in March and/or November L rain in all months, Q no rain in June and September L more than Q April – October/April - June L higher maximum than Q	idde
	Must compare both charts for credit res. 1 for comparison of amounts res.1 for comparison of seasonal dist.	[4]
(ii)	Give reasons for the differences in amount and seasonal distribution of rainfall at these locations. [6]	
	QUETTA More rain from winter depressions [Max 2] Summer convectional rainfall [Max 2] No/negligible monsoon rainfall	
	LAHORE Less rain from winter depressions Little convectional rainfall/low humidity Monsoon winds – this should include both the SE and NW monsoon [Max 4 marks] Comparison of locations (1 mark) Monsoon brings more rain than depressions (1 mark) Must refer to differences (in each type of rainfall)	
(b) (i)	Compare the mean monthly temperatures of Quetta and Lahore Both graphs have a similar range/both 20-22° Q colder/L warmer Q smooth curve, L sharp drop after June Q slight drop May to July, L increases then decreases	
	Must compare both charts for credit	[3]
(ii)	Explain the seasonal changes in temperature at Lahore.	

Effect of latitude/angle of the suns rays [Max 2]

Rising in dry season/lack of cloud cover before monsoon

Drop in July related to start of monsoon season/heavy rainfall/stratus cloud [Max 2] [3]

		2
Page 5	Mark Scheme	Paper
	GCE O LEVEL – JUNE 2005	· D 2

(c) (i) What are the benefits and problems for farmers in the area of result from the rainfall?

Benefits [Res.1]

Some rain in all months/throughout year

Enough without irrigation/ for barani farming

Monsoon rain/summer rain for Kharif crops

Depression and convectional rain/winter rain for Rabi crops

Problems [Res.1]

Uneven distribution

Too much in July – August/too little October/November

Flooding in wet season

Lack of sunshine for ripening crops

Drought/high evapotranspiration April - June

Early or late arrival of monsoon

Heavy rain damages cereals, cotton

Pests, disease, virus in wet season

Heavy rain ineffective/does not soak in

[Float 3]

[5]

(ii) Choose one of the problems from (c)(i) and explain how it can be reduced.

Uneven distribution/too little in some months

Storage in reservoirs, ponds, tanks, barrages

Canals from storage in mountains

Use of underground supplies in dry season, tubewells

Flooding/too much in some months

Dams (in catchment areas), reservoirs, barrages

River embankments/levees

Drainage systems/diversion canals

Afforestation in catchment area

Dredging canals

Weather forecasts

Any other **reasonable** problems [Max. 3 any one line]

N.B. Allow a problem not stated in (c)(i)

Credit only one problem

Page 6	Mark Scheme Pape	r
. ugo o	GCE O LEVEL – JUNE 2005	•
3 (a) (i)	Mark Scheme GCE O LEVEL – JUNE 2005 How many million acres of wheat were grown in 2000? 23.5/23 - 24 For which crop was there a reduction in area from 1990 to 2000? Vegetables For which crop was there an increase in area from 1980 to 2000 by 2 milliacres?	
(ii)	For which crop was there a reduction in area from 1990 to 2000? Vegetables	Tidle
(iii)	For which crop was there an increase in area from 1980 to 2000 by 2 mi acres? Cotton	llion on [1]
(b) (i)	Why is an increase in wheat production important? Increasing population Alleviate starvation/lack of food Decreasing imports/step towards self-sufficiency/no loss of foreign exchange Increasing export (in good years)/increase foreign exchange	[3]
(ii)	State two natural inputs necessary for wheat production, and for each explain importance. Cool/moderate temperatures 10 – 20 - for germination and good growth/sowing Warmer; 25 – 30 for ripening Dry period - for ripening/harvesting Moderate rainfall/moist/wet weather - for germination/growing/swelling the grain Alluvial/loam/clay soil/fertile – for good growth Well drained soil – for root growth/aeration Flat land – for machinery and/or irrigation	n its
	N.B. only credit 'for good growth' once [2 marks for each input, float of 1]	[5]
(iii)	Explain how human inputs have contributed to the increase in wheat product Irrigation on Indus plains and semi-arid areas Details of irrigation max 2 Fertiliser factories in (named town) HYVs developed e.g. Maxi Pak, Shahkhan 95, Wadnak 95, Kohson 95 GM modifications Plant protection programmes e.g. treated seeds, pesticide sprays, locust watch Land reforms making larger fields/more economical units Tractors and other modern machinery Government loans Support prices Education/skills/colleges Capital from investors/banks Land reform Named input + explanation required, max 2 each line for development	tion. [6]
(c) (i)	What did the land reform laws aim to do? Redistribute land more equally/more fairly/ceiling on land holdings Take land away from large landowners/landlords and give it to the tenants/poor farmers/protect tenants from eviction	[1]
(ii)	What are the advantages of land consolidation? Economic units Use of machinery/modern methods Easier to supervise Better irrigation Better opportunity for investment/easier to get loans	

Da	ge 7	Mark Scheme Pa	nor
Га	ge <i>i</i>	GCE O LEVEL – JUNE 2005	2
(d)		Mark Scheme GCE O LEVEL – JUNE 2005 How can education and training help a small-scale farmer to increase Learn about modern methods e.g. seeds, machinery, pest control Learn how to avoid crop failure Improve literacy e.g. read about what other farmers are doing, where to sell to mannest profit Take loans – must be related to education or literacy Credit any line up to 3 marks	hbridge.
4 (a)	For	each of the mines A and B	
	(i)	Name the type of mine, A – adit/drift B – shaft	[1] [1]
	(ii)	Explain why that is the type of mine there, A – coal (seam) exposed on a slope/can dig tunnels along the seam B – coal (seam) underground / does not outcrop	[1] [1]
	(iii)	Describe the method of mining coal in the mine.	
		Adit mine Horizontal shaft into hillside Possibly several shafts at different levels Pick and shovel/trepanner (only credit once) Dynamite on seam (only credit once) Buckets/trucks/trolleys/conveyor belt/donkeys to surface Shaft mining Main shaft (vertical or sloping) Tunnels/side shafts along seams Pick and shovel/trepanner (only credit once) Dynamite on seam (only credit once) Buckets/trucks /trolleys to main shaft Lifted to surface/elevator [Res 2 for each type of mine, float of 1]	[5]
Stu	ıdy th	ne map Fig. 5 showing coalfields and coal mining centres in Pakistan.	
(b)	(i)	Name the coalfield X and one of the mining centres there. Quetta (coalfield) Sor Range, Degan, Mach, Khost, Shahrig, Harnai	[1] [1]
	(ii)	Name the coalfield Y and one of the mining centres there. Lower Sindh (coalfield) Blakhra, Jhimpir, Sonda	[1] [1]
		State the two main uses of coal mined in coalfield X Brick making/brick kilns (mixed with imported coal) For steel making/in the blast furnace	
		Briquetting	[2]

Page 8	Mark Scheme Paper	
	GCE O LEVEL – JUNE 2005	
(c)	Explain why coal has to be imported. Not good enough for iron smelting/no metallurgical coal/needed for	
	Pakistan Steel Table 1	
	Need for coal to mix with poorer grade	
	Difficult to mine/seams thin/seams contorted	
	Not enough mined in Pakistan/lack of technology/lack of finance [Credit any line up to 2]	3

(c) Explain why coal has to be imported.

[3]

Hydro-electric power (HEP) is called a 'renewable' source of power.

State three physical conditions necessary for the development of an HEP (i) scheme.

Wet climate/moderate/high rainfall/over 750 mms

Water from glaciers/snowfields

Deep valley

Steep sided valley

Narrow valley

Impervious/impermeable rock

Large drainage basin/large river/large catchment area

Cool climate/low evaporation

Strong/hard rock

Reliable water supply

[3]

Why is it important for Pakistan to develop renewable power sources? (ii)

Reserves of fossil fuels running out

Named pollution/not environmentally friendly/causes global warming/greenhouse gasses

More readily available

Schemes in remote areas/can be built away from fuel resources

Low running costs of HEP, solar power, wave energy etc./cheaper in the long term

Fossil fuels expensive

Fossil fuels are imported

Nuclear power dangerous

	4	
Page 9	Mark Scheme	Paper
	GCE O LEVEL – JUNE 2005	2
5 (a) (i)	Describe the distribution of air routes in Pakistan Largest numbers/biggest foci from Karachi (10) Centres/foci in other major cities e.g. Lahore, Multan, Turbat, Quetta, (Any 2 ex More south-north/SW-NE/less east-west Many routes follow Indus Plain Branches up other valleys e.g. Peshawar-Chitral None in extreme north, Few/none in Chagai, SE Sindh/Thar	Paper 2 Connidae Conn [4]
(ii)	Explain why there are more internal air routes from Islamabad than Dalba	ndin.
	Islamabad Federal capital Administration/business/tertiary industry Larger population More people can afford to travel/high standard of living International airport Access to Northern Areas Better road links	[Res. 2]
	Dalbandin Poor road links Lower population Less administration/office jobs Fewer people can afford to travel/low standard of living No international airport Desert/barren land 2 @ 2	[Res.2]
(iii)	Why is air transport and travel important within Pakistan? Faster than road and rail Better to reach remote places/places where roads are poor Better in hilly/mountainous areas Better for light, high value goods Less chance of robbery/safer More people can afford air fares More demand from business Can be used all year/not affected by snow, flood etc. Tourism within Pakistan Emergencies Improved communication between cities	[3]
(b) (i)	Describe the features of Lahore Dry Port that can be seen in Photograph Lorries/trucks/containers/trailers Sign to import examination area Storage sheds/warehouses Covered loading area/shelter with poles Loading platform/raised area More containers in background/behind sheds Flat/hard/concrete ground (2) men/drivers/labours Forklift truck	A [4]

	4	
Page 10	Mark Scheme Paper	
	GCE O LEVEL – JUNE 2005	
(ii)	Mark Scheme GCE O LEVEL – JUNE 2005 State two other features of a dry port that cannot be seen in the Phe Export checks and clearance Import examination area Railway yard Refrigeration facilities Management offices/customs administration Cranes/loading facilities Large storage area Security gate/guards	ridge.
(iii)	Why are dry ports important to the economy of Pakistan?	
	Speeds up customs procedures/better collection of revenue/simplified administration Saves time transporting goods to Karachi/hassle-free transport Reduce workload at Karachi port/Port Qasim Stimulate foreign trade (in cities far away from ports) [Credit up to 2 for any line]	[3]
(c) (i)	Name an example of a craft industry Carpet Traditional textiles Embroidery Jewellery Ceramics Woodwork Metalwork Sports goods Pottery etc.	[1]
(ii)	In what ways is this type of industry important to the local economy? Employment (in general) Employment of women/the whole family Meet demand of local market Reduces rural-urban migration Uses local raw materials Uses waste materials Low investment in technology/cheap to set up Increases capital/earns money for the local community	[4]