UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the October/November 2007 question paper

2059 PAKISTAN STUDIES

2059/02

Paper 2 (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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Study t	he map Fig. 1 and Photograph A (Insert)
(a) (i)	Name the deserts X and Y. X Thar/Nara/Cholistan/Tharparkar Y Thal
(ii)	Describe the scene in Photograph A. [4] Dry/desert Camels Bare/sandy ground/ barren Low bushes } or sparse vegetation Small trees/larger bushes } Flat No clouds
(b) (i)	Explain why desert X has a very low rainfall. too far south for monsoon rain too far east for depressions/westerly winds little water to evaporate for convectional rain low/flat land so no relief rain not coastal so no cyclones/sea breezes
(ii)	Describe simple methods that can be used to irrigate <i>small</i> areas of desert A. [4] A sentence on 2 or more of the following wells, ponds, tanks, shaduf, jars tubewell/tanker/sprinkler (Can dev to 2 for named method)
(iii)	Explain how some parts of desert B can be irrigated by large-scale schemes. You should refer to Fig. 1 and use your own knowledge. Barrages (name + location) e.g. at Jinnah or Chashma at Rasul or Trimmu link canals (+ example) – to transfer water perennial canals – to provide water all year distribution canals – to reach all fields

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1

(List max 2)

inundation and diversion canals

dams (name + location)

e.g. Tarbela

Mangla

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(c) (i) Why do problems of waterlogging and salinity occur in some irrigated areas?

Waterlogging

Water available all year

Crops given more water than they use

Watertable rises/reaches surface

Salinity

Evaporation of water Salt in irrigation water Salts brought to surface Unlined canals leak

(ii) How can these problems be overcome?

[5]

[3]

Lowering water table by tubewells

trees

Control of water by lining canals

closing canals temporarily

surface drains

Flushing out of salt by water from tubewells

surface drains

Education to improve farming methods

Government schemes SCARP, WAPDA

[Total: 25]

2 (a) Study Fig. 2 which shows the climate of Multan.

(i) Explain why cotton is grown in this area of the Punjab. Refer to Fig. 2 in your answer. [5]

Reserve 2 marks for reference to Fig. 2

High summer temperatures/Summer temperatures over 30/May–September 32–31 Temperature rises to 35 in June

Not too cold/No temperatures below freezing/Lowest temperature 7 in Jan + Dec Some rainfall in April–May for sowing/15-18mms

Rainfall increases in July–August for growth/to 60mm

Little rain/dry on October–November for ripening and harvesting/less than 10mms

Other factors

Alluvial/loam }

Moisture retentive }

Rich in humus } reference to soil max. 2

Lime }

Deep soil }

Flat land

Dry climate to reduce pest attacks

Good irrigation available

Good roads/infrastructure

Access to capital/investment etc.

(NOT consequences e.g. fertiliser factories, population etc.)

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(b) (i) Explain how climatic hazards may destroy or reduce the yield of cotton on farms.

Cold temperatures/Frost + can kill plants

Rain + damages cotton boll before picking

Floods + can wash crops away/soil erosion

Thunderstorms/Cyclones – damages to crops/soil erosion

Drought + can reduce growth, kill young plants

(1 mark for named hazard + 1 for explanation) (max 2 for list)

(ii) Explain two other factors that may reduce the production of cotton in Pakistan. [4]

Virus/Pests/disease + e.g. Leaf-curl virus or other named disease

Lack of irrigation water + reduces yield

'Waterlogging and salinity' or other soil damage + reduce yield

Economic/drop in demand/other crops make more money

Pollution + effect

raw cotton

Loss of fertility – not replenished by floods/depleted by crop

(1 mark for named factor + 1 for explanation) (max 2 for list)

(c) cloth raw cotton ready-made cotton yarn clothes

(i) List the following in order of production.

cloth ready made clothes

(ii) From your answer to (c)(i) state one product of:

cotton yarn

[2]

[3]

[4]

A a processing industry

Yarn/thread or cloth

B a manufacturing industry.

cloth or ready-made garment

(iii) Explain why Lahore is an important centre of the textile industry. You should use your answers to (c)(i) and (c)(ii) and your own knowledge. [7]

Cotton grown locally + ex

Water for washing

Machinery from HMC/Taxila

Labour supply – large skilled and unskilled population

Power – national electricity grid, gas pipelines, oil pipeline, power stations + ex

Transport – good roads, railways transport north, south and west + ex

Tele-communications, access to internet,

Education – skilled workforce, IT skills, foreign experts

Dry port – to promote exports

EPZ - to improve quality, better infrastructure

Industrial estates – for accommodation, infrastructure + ex

Market – large population + ex

Investors/entrepreneurs – for capital + ex

Factories for all stages of production

(Needs more than a list)

[Total: 25]

Page	e 5			Mark Sch			Syllabus	Paper
			GCE O LI	EVEL – Octob	er/November	2007	2059	02
(a) S	Stu	dy Fi	g. 3 which sh	ows limeston	e and rock sa	It extraction	on.	
((i)	Wide NWF N(E) S Sir	cribe the distrespread P-Punjab bord Baluchistan hdh/near Karad ral Sindh	ler/Potwar Pla		tion in Pa	kistan.	[3
(i	ii)		sport for thes		both 'bulky g	oods'. W	hat is the che	apest form o [1
(ii		that	is the supply of rock salt? not have to tra ried in many a	avel so far		s of Pakis	tan likely to be	cheaper than [1
(b) N	Nea	ırly o	ne million ton	nes of rock s	alt were extra	cted in Pa	kistan in 2002.	
((i)	Wha	t is a mixture	of rock salt a	nd water calle	ed?		[1
(i	ii)	Cool laun				, caustic s	soda for tannin	[2 g, textiles an
					(Cred	it 2 uses, o	or one with deve	elopment)
		dy P trict.	hotograph B	(Insert) show	ving a cemen	t factory i	near Ghulamu	llah, in Thatt
((i)	Flat Dry/I Roug Vege Chin Smo Low Ston	cribe the scen pare/barren/ungh road to facto etation in backonney ke/dust/air poll flat-roofed buil es/rocks tracks	oopulated ory ground ution	ograph.			[4
(i	ii)	limes gyps natu	e three natura stone um/calcium su ral gas/coal shale	-	are needed to	make cen	nent.	[3

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(iii) Explain the importance of *three human* inputs at a cement factory and the difficulty of providing them at this site. You should refer to Photograph B and use your own knowledge. [6]

<u>inputs</u>

electricity for power road/railway for transport labour for good production telecommunications for supply/sales etc. machinery for fast/efficient production capital for investment

difficulty

remote from settlement lack of skilled/educated workforce unreliable labour force lack of named infrastructure hot/dry climate lack of local entrepreneurs

(input + difficulty 1+1)

(d) Why is there a large demand for cement in Pakistan?

Domestic construction e.g. houses
Industrial construction e.g. Factories
Institutional buildings/schools/hospitals/offices etc.
Communication e.g. roads, bridges, railway sleepers
Port developments
Water management e.g. Dams, canals, embankments
Or could be linked to a new development e.g. Gwadar

(Any line max 2)

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[4]

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4 (a) Read the extract below and study Photograph C (Insert).

Quetta is an important and busy trading centre. One of its main trades is in textiles and tribal clothes. The centre of the city has seen many modern improvements to its buildings and communications.

(i) State three features that can be seen in Photograph C and agree with what is said in the extract. [3]

People/more than 5

Many shops/commercial buildings

Textiles/clothes shops

Overhead wires/power/telephone lines

Modern/concrete buildings

Tarred road

Truck/4x4/car

Scooter

Telecom mast

(ii) Why is Quetta an important trading centre?

[3]

Focus of roads/well connected to rest of country

Main road through pass/RCD highway

Nomadic tribes

Near Afghan border/Afghanistan

Only large settlement in area

Railway

Airport

Capital of Baluchistan

Dry Port

(b) (i) State two types of infrastructure shown in Photograph C.

[2]

electricity (wires)

road

telephone (wires) (allow repetition of answer in (a)(i))

(ii) Explain why these, and other types of infrastructure are important to a centre such as Quetta. [5]

Electricity for offices, factories, lighting, power, communication

Roads for transport of people and goods

Telephone for quick communication, better business

Water for drinking, cleaning, hygiene, etc

Gas for power, heating etc.

Industrialisation needs good infrastructure

Hotels for tourism, visitors

Administration buildings

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(c) (i) State three types of tertiary employment that may be taking place in this street shown in Photograph C.

shop keeper office worker

(vehicle) driver

cleaner

etc.

(ii) Why are very few primary jobs available in urban areas?

[2]

[3]

No arable land

No pasture

No mines or quarries

No forest

Creates pollution

High cost of land

(d) Study Photograph D which shows a refugee camp near Quetta.

(i) Describe the scene in Photograph D.

[3]

dry/desert/arid

flat/sloping

hills in distance

stone/gravel/barren/uncultivated

tracks

tents/huts

few people

few animals

fodder/straw

wall

poles

(comparison with photograph C max 1)

(ii) What problems does the arrival of large numbers of refugees create for infrastructure and services? [4]

Lack of, or provision of:

Food

Water

Sanitation

Medicine

Housing

Power

Damage to roads

Cheaper labour for services

Etc.

[Total: 25]

Page 9)	Mark Scheme	Syllabus	Paper
		GCE O LEVEL – October/November 2007	2059	02
(a) Stu	dy Fi	g. 4 which shows some population indicators in Pa	akistan in 1995	and 2002.
(i)		ch indicator shows that population growth may be rate	slowing down?	[1]
(ii)		ch indicator shows that there could be more childrer infant mortality rate	en in the future	? [1]
(iii)	Low	r do the indicators show that there could be more per death rate er life expectancy	people over 50 i	n the future? [2]
(b) (i)	Few More More Larg Sma	reference to your answers in (a)(i), (ii) and (iii) cture of the population is changing. er babies e young people e old people er proportion not working/dependent ller proportion working/independent to pyramid shape max. 2	explain how t	the age [4]
(ii)	more need train hosp hous adap more more work	oitals and clinics		[5]

5

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(c) (i) Explain the causes of rural-urban migration.

[4]

Push factors (res. 1)

Loss of agricultural jobs

Lack of named facilities e.g. shops, entertainment

Lack of school/trained teachers

Lack of health facilities/trained staff

Loss of land

Natural disasters with example

Poverty because of

Pull factors (res. 1)

Better pay

More jobs

Better lifestyle/bright lights effect/entertainment (max 1)

Better education

Better health services

(factor + explanation = 1) (do not double mark)

(ii) What problems are caused in *rural* areas by migration to urban areas?

[4]

Loss of workforce/only the old and young left

fewer children

loss of services e.g. education, medicine, public transport, shops

loss of infrastructure e.g. roads, electricity, telephone

loss of educated people/young people

women left behind/unbalanced sex ratio

lack of government investment/neglected/remain undeveloped

(credit any line to max 2)

(iii) How can people be encouraged to stay in rural areas?

[4]

Land reform and consolidation

Better infrastructure (named) e.g. Electricity, water, roads

Better services (named) e.g. Schools, hospitals, clinics

Development of Cottage/small-scale industries

Better communications e.g. Radio, TV

Government schemes

Irrigation schemes

(do not accept unless statement is explained)

e.g. Land reform because many farmers have small landholdings

Electricity supplies for raising living standards

More schools to increase literacy

Cottage industries for employment/income

Radios for education/entertainment

Tourism for employment

[Total: 25]