## MARK SCHEME for the May/June 2009 question paper

## for the guidance of teachers

## 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, which would have considered the acceptability of alternative answers.

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

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	Page 2	2	N	lark Scheme	e: Teachers'	version	Syllabus	Paper
				GCE O LEVE	EL – May/Jur	ne 2009	2059	02
1 (	a) Stu	ıdy Pł	hotograph	ı A (Insert) s	howing the	Hanna Dam.		
	(i)	steep bare deep narro flatte side	p rock face rock/rocky	//barren } valley } ea/beach utary	am.			[3]
	(ii)					evel in the reserv d/flat land at edge	oir is low?	[1]
S	Study I	Photo	graph B (I	Insert) show	ving the Ballo	oki Barrage.		
(1	Bai lon wat link bot	rrage i ger/wi ter on c cana	is: ider/less hi both sides l e railings a	igh S	n Photograp	h B with the dam	n in Photograph	<b>n A.</b> [3]
(4	•	ıdy Fi nna D		aph showing	g the amoun	t of water stored	l in the reservo	oir of the
	(i)				<b>ount of wate</b> 0.98 million ga	r <b>decrease from</b> 1 allons	1974 to 2004?	[1]
	(ii)	Siltat Due Less Due	tion/silting to soil eros water sup to climatic	sion/deforest	ation/overgra	red in the reserve nzing/river depositi ner temperatures/r	on	
	(iii)	furth Silt ti Affor Terra Dred	n <b>er?</b> raps restation acing lging/remo	} } of slopes		t of water in the r	eservoir from ເ	reducing [3]

Pa	ge 3			Paper		
			GCE O LEVE	L – May/June 2009	2059	02
(d)	(i)	Free Will Not i	is HEP (hydel) a chea raw material/rain in mor never run out/renewable mported/mined/drilled ent/high power output			[2]
	. ,	high Long Cost mon Loss Loss	<b>population?</b> distance to areas of us of wires and poles/di	fficult terrain/Pakistan canno		
(e)	Pho	otogr	aph A shows a chair li	ft. This shows that tourists	may visit the a	rea.
		beau lakes wild triba mou	some other tourist attr tiful scenery, views, vall s, rivers animals, birds, snakes, f people, traditional craft ntain climbing, fishing, w of any 2)	flora AND fauna s		[2]
		use Gove Infra work mon envii educ cultu less secu incre impr rural	examples in your answernment investment lead structure ey conmental improvement cation ral change isolation rity eased food production oved health facilities	<ul> <li>ling to:</li> <li>roads/airports for travel</li> <li>electricity/water/gas/teleco</li> <li>development of small s living standards</li> <li>for business people, shop</li> <li>e.g. re-afforestation</li> <li>of skills required, more inv</li> <li>meet other cultures/culture</li> <li>global awareness, trade</li> <li>better sanitation, hospitals</li> <li>urban migration reduced</li> </ul>	ommunications cale industries, keepers, craftsm vestment in scho al exchange	to raise nen, etc.
						[Total: 25]

	Pa	ige 4	ļ		k Scheme: Tea E O LEVEL – N	chers' version Av/June 2009	Syllabus 2059	Paper 02
2	(a)	The	ere ar			ce cultivation:		
	( )		arve	-	planting	preparation of fiel	ds growtł	ı
				-	a <b>the correct or</b> growth, harvesti			[1]
	(b)	Exp are Jur Jur Jur Jur Sep	plain a from ne ne–Ju ne–Se ne–Se otemb	how each of m June to Oc ly ptember ptember per–October	the processes tober. Rain to soften Rain for plantin High/increasin Sufficient rainf Drier period fo	sonthly rainfall in the La named in (a) is linked soil for preparation of fie ng seeds/seedlings g rainfall for flooding field all/rain continues for grow r harvest to process max 1) NOT A	<b>to rainfall in the</b> ld/ploughing ds wth	E Lahore
		(רונ	jure v		in graph linkeu	to process max 1) NOT A	AVERAGES	[4]
	(c)	(i)	Bigg Dou Dise Drou Stro Grov	er harvest/he ble cropping/r ase/pest resis ught resistanc nger stems wing populatic ernment enco	avy crop/double nulti-cropping stance e on/increased de uragement/ince	entives		
			Nam	ied variety wit	h crop (e.g. Irrip	ak rice, Maxipak wheat, N	Nayab 78 cotton)	(max 1) [4]
		(ii)	<b>Stud</b> 6	dy Fig. 2 agai	n. In how man	ly months is the rainfal	l less than 40 m	<b>m?</b> [1]
		(iii)	Expl Can Pere Inun Distr Tube Shae Cha Pers Pone Kare Tanl Stor	lanation of: al irrigation ennial canal fr dation canal fr ibution/divers ewell run by e duf, a bucket rsa water draw sian wheel, a ds and tanks ez, a tunnel ca kers carrying age in dam, re	om a dam/head from a river in flo ion canal from a lectricity on a pole, from wn from a well b waterwheel turn to collect rainwa arrying water fro water eservoir, barrag	ood a mountain stream river or canal by animal power ed by animal power ater m the mountains	es of low rainfal	I.
				for groundwa nklers	ner			[4]

Page 5	Mark Scheme: Teachers' version	Syllabus	Paper
	GCE O LEVEL – May/June 2009 205		02
silt der wh	nat is alluvial soil? /loam/sediment posited by rivers/from flooding en they flood ntains nutrients/minerals		
Fei dee fine reta	plain why alluvial soil is good for crop growth. rtile/contains nutrients (e.g. nitrate/potash/phosphate) ep e texture for drainage/not prone to waterlogging ains moisture/moisture retentive blaced each year		
Canals Low/lac Evapor Wastag Deman Conflict Water p Siltation Less in	<b>a why there is a shortage of water for irrigation in th</b> blocked by silt/siltation sk of rainfall/variable rainfall/tail end of monsoon or west ation je/leakage/seepage d of domestic, farming, industry users (max 2) ting users/too many users pollution n in reservoirs/lower capacity Sindh because too much used in Punjab es of use to illustrate answer (e.g. water for washing co	ern depressions/	x 2)

l	Page (	<b>ô</b>	Mark Scheme: Teachers' version		
			GCE O LEVEL – May/June 2009	2059	02
3 (a	a) Stı	udy Fi	g. 3, a map showing three major cities and two ma	jor roads.	
	(i)	<b>A</b> – <b>B</b> –	<b>ne the cities A, B, and C.</b> Hyderabad Lahore Peshawar		[3]
	(ii)	NE ( NW/ (Eas Khył Cros Follo	ng the map, describe the route of the N5 road starti (to Lahore) N then W (to Peshawar/Afghanistan/Durand line) et side of) River Indus over Pass to Afghanistan eses river at Hyderabad ows River Chenab then Ravi eses River Ravi (near Lahore)/other named rivers/Indu	-	hi. [3]
	(iii)	Corr othe head does	npare this to the route of the Indus Highway. r/west side of River Indus ds north in Punjab instead of NE/follows only the Indus s not go to Lahore/other large cities ter/more direct		
			ses only one river		[2]
(		udy Fi kistar	ig. 4, a graph showing freight carried in a year by n.	road and by ra	ailway in
	(i)	and Tota Abou Road Road sam Both	<b>apare the amounts of freight carried by road and</b> <b>2006.</b> Il larger by road ut 20× more than railways d increased/rail stayed approx. same/rail increased less d 84 – 117 but rail 4 – 6 (1000 million tonnes per kr e increased 2003–6 decreased in 2000, road always increases	S	
	(ii)	raily More More (max Lorri Raily	e roads than railways e road vehicles than rail e  places  accessible  by  road/lorries  can  go  anywh	-	

Page 7		Mark Scheme: Teachers' version	Syllabus	Paper
		GCE O LEVEL – May/June 2009	2059	02
(c) (i)	low j scati Ruge Dese lack little	are there very few major roads and railways in Ba oppulation (density) ered population/few towns/lack of urban development ged/rocky/mountainous/barren/badland/rock slides/hill ert/lack of water/difficult working conditions of government investment/backward/present political industry opposition	s make barrier	[
(ii)	Balc Indu Urba Fast EPZ Bette Trav Acce Pron Tour Mine	ral exploitation		nent in
	High	ng development/better access to markets er incomes/living standards/quality of life		
	wore	e security		[

## 4 (a) Study Photographs C, D and E (Insert) showing the stockyard at Pakistan Steel Mills, Pipri.

(i)	Name three raw materials used in the Pakistan Steel Mills. Any three of: Iron ore, coal/coke/coking coal, limestone, manganese, chromite	[3]
(ii)	Why are most of the raw materials imported? Lack of development of resources/small output Iron ore not mined in Pakistan Coal poor quality	[2]
(iii)	Name the <i>two</i> outputs from the steel mills shown on Photographs D and E. Any two of: sheets, plates, rolls, coils, slabs	[2]

Pag			Paper		
			GCE O LEVEL – May/June 2009	2059	02
(b)	(i)	Any	<b>ne two human inputs to the steel mills.</b> <i>two of:</i> pur, capital, machinery, skills, technology, transport, po	ower, water, etc.	
	(ii)	Expl proc Labo Capi Mac Skills Tech Tran Pow Wate	lain how human inputs such as those named luction. bur – work machines, carry materials, office work ital – wages, machines, technology, investment hinery – faster, better quality, new products s – computers, office work, machines nology – quality, speed, modernisation sport – faster, larger supply, bigger markets er – efficiency, speed, quality er – for cleaning		
		(any	line max 2)		
(c)	(i)	An ir Prod	<b>It is an Export Processing Zone (EPZ)?</b> Industrial estate lucing products for export quality/export quality goods/quality checked		
	(ii)	indu Incre Relia Wate Road Attra Opp Deve Pote Exar	lain how the building of industrial estates constrial production in Pakistan. ease quality of goods able power/telecomm supply er supply/sanitation/cleanliness ds, railways to and from the estate/transport network active to investors/government incentives ortunities for more technology/modernisation/specialis elopment in rural areas ential industrial linkages mple of an industrial estate (max 1) line max 2 for good development)		increase
	Em Use Inve Reg Fixe Goo In o Leg Skil	ploym es ma estme gular ed/set od qua office o		ector of employ	ment.
	Per	nsion	scheme		
		entive			
	Ince	511110	s (e.g. health care, education)		

Page 9			Paper
-	GCE O LEVEL – May/June 2009	2059	02
(a) Study	Fig. 5, a population pyramid for Pakistan in 1998.		
	w many million children were there below the age of -19.2 (million) or males 9.7 or 9.8 + females 9.3 or 9.4	f 5 years?	[1]
• • •	<b>hy were there more children in the age group 5 to 9 t</b> anging birth rates, infant mortality, family planning, cont		<b>s?</b> [1]
(b) Study	the sectors X, Y and Z on Fig. 5.		
(i) Wi X	hich sector represents the group 'young dependents	5'?	[1]
(ii) Wi Y	hich sector represents the group 'economically activ	ve?'	[1]
Ex Ma Ma Ma Ov Sh Ma Ad Le	e numbers of people in sector Z are likely to have plain the effects of this on the economy and develop ore dependents/burden on working population ore older family members to care for children ore older people to give advice verpopulation/strain on resources nortage/demand of food ore medical services needed/hospitals overcrowded ore old people's homes laptations in houses for elderly ss money for development/burden or pressure on econo ost of pensions	oment of Pakist	
La La Ne Try Su Re Hig	aplain the reasons for a high birth rate in Pakistan. ck of knowledge of contraception/family planning ck of availability of contraceptives eed for help on farms/increase income ying for a son upport in old age eligious beliefs/Allah will provide/prestige of large families gh infant mortality omen at home to care for children/women lack education o not know about problems of overpopulation/large families	n/marry at a your	ng age [5]
Ac E.( Re Ed Ed Ma Ed Be Be	<b>cplain some measures that could be taken to reduce</b> cess to, education of, and use of contraceptives/family p g. Sabz sitara, green star (example of government scher educe need for child labour/ban child labour lucation and awareness of population growth/how to imp lucation of women/jobs for women ore clinics and hospitals ealthy environment/better sanitation/better living condition ean water/piped water etter nutrition/better food eligious support for birth control c.	olanning (2 mark ne) vrove living stanc	

Page 10		Mark Scheme: Teachers' version	Syllabus	Paper
		GCE O LEVEL – May/June 2009	2059	02
(d) (i)	with depo- loss prod shor wate litter burd uner	t are the effects of population movements from in Pakistan? opulation/neglect by government/lack of development of of men in rural areas/lack of workers/imbalanced s uction tage of housing/growth of squatters er/air pollution ing of streets en on e.g. schools, hospitals, power supplies, food, wa nployment in urban areas c congestion	of rural areas ex ratio/less ag	
	unre	st/crime/violence/drugs ad of disease		
(ii)	Lack	<b>do some people go to live in other countries?</b> of opportunities for professionals (e.g. doctors)		
	to Ca Corr Lack	ortunities such as construction in the Middle East, uns anada uption, lack of security in Pakistan/political instability, ι c of development in rural areas/lack of opportunities in ical care, quality of life)	unrest	

or opposites

[3]

[Total: 25]