MARK SCHEME for the October/November 2011 question paper

for the guidance of teachers

2059 PAKISTAN STUDIES

2059/02

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

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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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

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Page 2	2	Mark Scheme: Teachers' version	Syllabus	Paper
		GCE O LEVEL – October/November 2011	2059	2
(a) Stu	udy P	hotograph A (Insert).		
(i)	Stat	e <u>three</u> ways in which the owner has improved the	site for fish far	ming. [3]
	Sepa Roa Bricl Tree	tangular / man-made ponds for better management et aration of ponds/embankment for different ages / spec ds / ponds lined to prevent contamination / mud / dust k / stone / Pucca road for vehicles / for easy access es for shade / shelter / beauty ds full of water for healthy fish / good conditions	ies	
(ii)	Nam	ne <u>two</u> species of fish reared on fish farms.		[2]
		<u>two of</u> aseer, Rahu, Palla, Thalla, Trout, Carp, shrimp, catfisl	n, croaker, perch	(Damral)
(iii)	Des	cribe the fishing methods used on a fish farm.		[4]
	Hato Of s (Reg Hea Top Trar	bare ponds / half fill for insects ch eggs / buy smelt (small fishes) / breeding ingle species / improved type of stock gular) feeding (with poultry waste) Ith care / regular checks up ponds / check water levels clean water insfer between ponds by size ch fully grown fish / fish of market size etc.		
(b) Stı	udy Fi	ig.1, which shows fish production in Pakistan.		
(i)	Whi	ch type of fishing increased from 1997 to 2007?		[1]
	Inlar	nd (and fish farms) /both types		
(ii)	In w	hich year was marine fish production lowest?		[1]
	1997	7		
(iii)	How	<i>v</i> did the overall total production change from 1997	′ to 2007?	[2]
		eased overall / 1997–2007 eased then decreased / highest in 2002		
(c) Ex	plain	why fishing <u>and</u> fish farming are important industr	ies in Pakistan.	[4]
Co Bo So	ntent o nes fo urce o	s food / good quality / healthy of food including fish oil, e.g. protein, white meat, low in or fertiliser / other waste product <u>and use</u> of income of employment	cholesterol, vitar	nins (max 1)
Ex	port /	earns foreign exchange – <u>of named type of fish / sho</u> or area	ellfish / product o	or to a named

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
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(d) (i) State <u>three</u> ways in which fish can be stored and processed before sale. [3]

Chilled / refrigerated
Frozen / in freezer
Gutted
Filleted / de-boned
Dried
Salted
Canned

(ii) At the present time, most of the fish catch is processed in Karachi. The ports of Balochistan such as Gwadar and Pasni have the potential for development.

What are the advantages and disadvantages of developing fish processing industries in the ports of Balochistan? [6]

<u>Advantages (res 2)</u> Stimulates development of fishing industry / port facilities (other than processing) Gwadar Port Reduced cost of transport (than to Karachi) More fresh / no delay / no need for storage Infrastructure development, e.g. roads, power, telecommunications Adds value to fish

Also credit the following ideas <u>with reference to Balochistan</u> Income – higher living standards, better housing, jobs <u>linked to income or economy</u> Trade with <u>named</u> country or area – more visitors, contact with other areas etc., e.g. Middle East Economic development, e.g. investment, entrepreneurs (with some detail)

<u>Disadvantages (res. 2)</u> Undeveloped infrastructure Lack of infrastructure, e.g. roads, power, water, ports, etc. Small market / population Long way from major centres of population, e.g. Karachi Uneducated / unskilled population Lack of interest from investors or government / high cost of any development Inhospitable climate / relief Named pollution linked to processing (max 1) Effects of increase in urban population (max 1) Poor quality product / canned fish banned in some countries

If not related to Balochistan max 2

[Total: 25]

[2]

2 (a) Study Fig. 2, which shows cotton growing regions in Pakistan.

A – north /north-east / Upper Sindh

B – south / south-west / Lower Punjab / Upper Indus Plain

 (ii) Why is cotton not grown further north? Too cold (in summer / growing period) Sensitive to frost Rain / too wet <u>during harvest</u> Poor soil / infertile etc. Steep slopes / no flat land Remote / long way from factories, demand etc. (iii) Why is cotton not grown further west? Too dry / lack of rainfall (for growth) Lack of irrigation canals Too cold (in growing period) Poor soil / infertile / etc. Steep slopes / no flat land Remote b) Study Fig.3, a graph of cotton farming. (i) State the area used to grow cotton in 2005. 3.2 / 3.200,000 (ii) State the production in 2005. 2.4 / 2,400,000 (iii) By how much has the area used to grow cotton increased from 1975 to 2005? 1.2 / 1,200,000 hectares / 2.8–2.9 acres (iv) Which has increased faster, the area used or the cotton production? (Cotton) production 	Page 4		Mark Scheme: Teachers' version	Syllabus	Paper
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 (Cotton) production (i) Explain <u>three</u> factors that have caused the yield of cotton to increase per hectare. <u>An explanation of any three of the following, (max 2 any factor)</u> fertiliser for nutrients /fertility + Pakistan soil deficient in nitrogen, better than 		1.2 / 1,200,	000 hectares / 2.8–2.9 acres		
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An explanation of any three of the following, (max 2 any factor) fertiliser for nutrients /fertility + Pakistan soil deficient in nitrogen, better than		(Cotton) pro	oduction		
fertiliser for nutrients /fertility + Pakistan soil deficient in nitrogen, better than	(c) (i)	Explain <u>thr</u>	ee factors that have caused the yield of cotto	on to increase pe	r hectare. [6
fertiliser for nutrients /fertility + Pakistan soil deficient in nitrogen, better than		An explanat	tion of any three of the following (max 2 any fa	actor)	
			for nutrients /fertility + Pakistan soil deficie		ter than
irrigation to make up rainfall deficiency + named modern method, all year water			to make up rainfall deficiency + named mo	odern method, all	year water
pesticides as pests reduce growth + example mechanisation for efficiency + faster better quality of work named machine		•			

mechanisationfor efficiency + faster, better quality of work, named machineeducationin modern methods + examples of how things can be improvedHYVshigh yield + pest resistance / double cropping / examplecapitalfor buying inputs + example

land reform for more motivation, bigger fields etc.

 $\frac{2 \text{ marks for each factor}}{\text{Name only } = 0}$

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(ii) Explain why cotton yields vary from year to year.

rainfall / damage to cotton boll before harvest summer temperatures / early frost availability of water from irrigation or rain floods / high winds / storms etc. causing damage pest attack causing damage previous income affecting investment so cannot buy good quality inputs sickness of labour affecting production

Name only = 0

(d) What are the advantages and disadvantages of developing the cotton manufacturing industry in Pakistan? [6]

Advantages (res. 2) Established industry / good reputation worldwide Creates jobs / employment / develops skills Traditional skills / cheap labour available Value-added export / export of <u>named product or to named area</u> / <u>large scale</u> export/ main export Higher price (because it is processed) / value added Farmers can increase income Better <u>named</u> infrastructure Less imports / can meet demands of population Can compete with other countries

Disadvantages (res. 2) Lack of modern skills / education Lack of money to invest / investors Competition from other countries Old machinery, breakdowns, slow, old products / need to import machinery Water shortage for manufacturing / conflict with other users Power shortage / power breakdown, Poor roads and railways / transport to ports, Government policy / changing policies Less land for growing food other crops Problems of poor harvest / pest attack / climate problems Effects of increase in urban population (max 1) Named pollution linked to cotton manufacture (max 1) Machines will replace manpower / loss of unskilled jobs Lack of investment in other industries / services

[Total: 25]

[3]

3 (a) Study Fig. 4.

(i)	Name the area A which has many mineral resources.	[1]
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Salt range

	5	Mark Scheme: Teachers' version	Syllabus	Paper
		GCE O LEVEL – October/November 2011	2059	2
(ii)	Nam	e <u>two</u> minerals that can be extracted in this area.		
	Rock	two of s salt, gypsum, limestone / marble / dolomite, oil / stite, soapstone / talc / stealite	petroleum, gas, o	coal, iron d
(iii)	Nam	e the cities B and C.		
		Peshawar slamabad / Rawalpindi		
(b) Stu	ıdy Fi	g. 5, which shows fertiliser production in Pakista	n.	
(i)	By h	ow much did fertiliser production increase from 2	2000 to 2008?	
	1.0-	1.2 / 1,000– 1,200		
(ii)	Com	pare the production from 1990 and 2000 to that fi	rom 2000 to 2008	3.
	Over 3.0–4	e variable 1991–2000 than 2000–2008 all rate of increase greater / gradient steeper 1990–2 4.6 / 1.6 <u>million tonnes</u> compared with 4.6–5.7 / 1.0 (max 1)		<u>/</u> figures <u>v</u>
	Allov	v for slight inaccuracy in figures		
Hig Mo Mo Rei Hig Les Hig Chi	her yi re foo re agr duced her G ss deb her fa re job eaper	d production icultural exports, or improved balance of payments (r imports of fertiliser, or improved balance of payment NP t rm incomes / profits s cost of fertiliser	nax1)	ople and
Hig Mo Mo Rei Hig Les Hig Chi	her yi re foo re agr duced her G ss deb her fa re job eaper	y of Pakistan? elds d production icultural exports, or improved balance of payments (r imports of fertiliser, or improved balance of payment NP t rm incomes / profits	nax1)	ple and
Hig Mo Mo Re Hig Les Hig Mo Chi	her yi re foo re agr duced her G ss deb her fa re job eaper re ind	y of Pakistan? elds d production icultural exports, or improved balance of payments (r imports of fertiliser, or improved balance of payment NP t rm incomes / profits s cost of fertiliser	max1) ts (max1)	ople and
Hig Mo Mo Re Hig Les Hig Mo Chi	her yi re foo re agr duced her G ss deb her fa re job eaper re ind idy Fi	y of Pakistan? elds d production icultural exports, or improved balance of payments (r imports of fertiliser, or improved balance of payment NP t rm incomes / profits s cost of fertiliser ustrial goods (e.g. cotton)	max1) ts (max1)	ople and
ecc Hig Mo Mo Re Hig Les Hig Mo Ch Mo (d) Stu	her yi re foo re agr duced her G ss deb her fa re job eaper re ind udy Fi State <u>Macl</u>	y of Pakistan? elds d production icultural exports, or improved balance of payments (r imports of fertiliser, or improved balance of payment NP t rm incomes / profits s cost of fertiliser ustrial goods (e.g. cotton) g 6, which shows imports of goods to Pakistan in	max1) ts (max1)	ople and
ecc Hig Mo Mo Re Hig Les Hig Mo Ch Mo (d) Stu	her yi re foo re agr duced her G ss deb her fa re job re job re ind idy Fi State <u>Macl</u>	y of Pakistan? elds d production icultural exports, or improved balance of payments (r imports of fertiliser, or improved balance of payment NP t rm incomes / profits s cost of fertiliser ustrial goods (e.g. cotton) g 6, which shows imports of goods to Pakistan in the percentage of: hinery – 65	max1) ts (max1) 1 2007.	pple and

Page 7	Mark Scheme: Teachers' version	Syllabus	Paper
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(iii) Explain the importance of mechanisation to the craft industry and other smallscale industries of Pakistan. [4]

Faster Larger production Lower labour costs / cheaper Less work / easy / less tiring Standardised product / better quality Can replace child labour New skills learned

Allow development, e.g. Faster <u>so that</u> more income can be made because more production Standardised product <u>so that</u> it is more attractive to buyers

Allow problems, e.g. Unemployment, loss of traditional skills

(e) The countries of the European Union have a large demand for goods such as clothes and sports goods. Pakistan can produce these goods cheaply.

Explain the advantages and disadvantages of developing a trade agreement with partners in the EU. [4]

Advantages (2 marks) More exports / can pay off debt / improved trade balance / more foreign exchange (max 1 boosts economy) Cheaper imports Better availability Boosts industrialisation / more factories built / more investment in these industries Fewer trade barriers / lower taxes Stable market

<u>Disadvantages (2 marks)</u> Can be stopped / sanctions Conditions imposed / ban on child labour Pakistan goods may not be up to standard Pakistan production may not be reliable Imports may compete with local production May affect other agreements, e.g. Iran, China Fluctuating currency rates

[Total: 25]

4 (a) Study Photograph B (Insert).

(i) What are the animals shown in the photograph? [1]

Sheep / goats (list rule)

Page 8			Μ	ark S	cheme	e: T	eache	rs' ve	rsion			Syl	labus		Pa	per	,
		G	SCE (<u>) LE</u>	/EL – (Oct	ober/N	loven	nber 2	2011		2	059			2	
(ii)		cribe tograp		topo	graph	y ((relief)	and	veg	etation	ı of	the	area	sh	own	in	th [3
	Flat Gen	ograph tly slop Ill ridge	bing,		ating												
	Spai Scat	tered	/ unev	ven	b, trees	s, th	norny (a	any 2)									
(iii)	Ехр	lain w	hy th	iese a	animal	s a	re rear	ed in	a nor	nadic	way	in ar	id area	as.			[3
	Quio Seai Mov	kly fin ch for e with	ished / lacł the w	l so h k of w veathe		mo	ve										
(iv)	Wha	t are	the d	isadv	vantag	es	of keej	oing a	nima	ls in a	non	nadic	way?	•			[2
	Low Anin Diffic Lack	incom nals m cult to	ies ay die impro terina	e / sta ove / d	osion / arve / p develop re / dis	ioor C	r quality	/ anim									
(v)	Sug	gest a	n alt	ernat	ive wa	y o	of keep	ing th	iese a	animal	s.						[1
	In fie	alls / s elds / f shuma	ence	-													
(b) Stu	ıdy Fi	g. 7.															
(i)	Stat	e one	imp	ortan	t nhvs	ica	l reas	on fo	r the	low de	ensit	v of	nonul	atio	n in i	eac	h

- (i) State <u>one</u> important <u>physical</u> reason for the <u>low</u> density of population in each of these areas: [3]
 - A High relief, mountainous, hilly / cold temperatures
 - B Arid, dry, extreme temperatures / lack of soil, stony, plateau, sand storms
 - C Arid, dry, extreme temperatures / hot /lack of soil, sandy, sand storms

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(ii) RELIEF RAINFALL RIVERS

Explain how <u>each</u> of the three factors above contributes to a <u>high</u> density of population in area D. [6]

<u>One mark</u> for simple explanation of factor, <u>development mark</u> for links to higher population density

<u>Relief (2 marks)</u> Flat / gently undulating So good for cultivation, mechanisation, roads (allow infrastructure), buildings

<u>Rainfall (2 marks)</u> Monsoon / enough / high rainfall So plenty for rainfed / barani farming, domestic or industrial use, better air quality

<u>Rivers (2 marks)</u> Indus and tributaries So bring silt /alluvium, water for named use, fishing So perennial irrigation

(c) Choose <u>either</u> area A or area B from Fig. 7.

It is often suggested that improved transport and telecommunications can bring development to a sparsely populated area.

What are the advantages and disadvantages of these improvements to <u>either</u> area A or area B? [6]

Advantages (res. 2) Development of mineral / other resources Trade / access to markets for local products, e.g.via Gwadar port, to Iran and Afghanistan Industrial development Development of employment opportunities Access to consumer goods / better food / machines etc. Access to health / education Contact with buyers by telecommunications Advertising by telecommunications Distance learning Tourism

Disadvantages (res. 2)

People can leave more easily / more rural-urban migration Difficulty of construction (must be clear reference to the area), risk of damage or blockage Cost of construction / cost of maintenance / lack of machinery etc. Lack of power / electricity for telecommunications People may see better lives / opportunities elsewhere Low population therefore uneconomic Resistance of local tribes / loss of culture Deforestation when roads/ transmission lines are built

[Total: 25]

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5	(a) Stu	udy Fi	g. 8, which shows January temperatures in Pakista	an.				
	(i)	Wha	t is the temperature at:		[3]			
		Fais	<u>ichi</u> – over 18/ any figure between 18 and 30 <u>alabad</u> – 10–15 or any figure between these <u>ral –</u> 5 or under, or any figure from –10 to + 5					
		<u>Or c</u>	redit a temperature within the range					
	(ii)	Do t	he temperatures increase or decrease:		[2]			
			o <u>m south to north</u> – decrease o <u>m east to west</u> – decrease (allow increase only if state	ed 'in the south')				
	(iii)	Ехр	lain <u>two</u> factors that affect winter temperatures in F	Pakistan.	[4]			
		As t	lation / angle of the sun ne overhead sun moves to the southern hemisphere / ad over a larger area	over Tropic of C	apricorn, rays			
		As tl	ude / height of the land his increases temperatures decrease s less dense so holds less heat / heat radiated from ide	m the surface d	ecreases with			
		Land	tinental / maritime effect I loses heat in winter noderating sea winds					
		<u>2 ma</u>	arks for each factor					
	(b) Stı	udy Fi	g. 9, which shows the distribution of monsoon rai	nfall in Pakistan				
	(i)	Nam	e the areas of high rainfall A and B.		[2]			
			South / lower / south-east Sindh North / upper / central Punjab					
	(ii)	Nam and	e the body of water that is the source of moistur Y.	re for the mons	oon winds X [2]			
			Bay of Bengal Arabian Sea					

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(c) Explain why the lack of monsoon rainfall in the Southern Punjab and Sindh causes problems for farmers. [6]

Poor crop growth / difficult to grow crops Low profits / incomes /farm economy Unreliable / variable rainfall Little or no other sources of rain / western depressions, relief etc. Low humidity High evaporation / evapotranspiration Due to high temperatures Need for irrigation / expensive to irrigate / depends on rivers and canals Irrigation water already used by North Punjab and other users Poor farmers cannot afford tubewells etc. Can be soil erosion / blowing

(d) Consider the feasibility of improving water supply to farmers in Punjab and Sindh. [6]

In favour (res.1) Rainfall in monsoon season can be stored Snow melt from mountains Indus river system brings water from highlands Can make more storage / reservoirs / dams / barrages Can build more canals Can use groundwater / build more tubewells

Against (res. 1) Cost of reservoirs, canals etc Cost of tubewells Lack of reservoirs / dams / barrages Indus Treaty limits supply / conflict with India over supplies Lower water table restricts groundwater Waterlogging and salinity problems Lack of / cost of power supplies for pumps Other constraints, e.g. education, wastage, conflict between users etc. Can be ruined by floods

Alternative approach <u>Improvements (res. 1)</u> More storage More canals Reduce waste / seepage / flooding Clear silt / silt traps Control water pollution Modern technology, e.g. tubewells, sprinklers Education of farmers Plant trees for more rainfall

But (res. 1 mark) Need for investment Lack of training for farmers Lack of water supply Conflict with India