### MARK SCHEME for the October/November 2006 question paper

## **2059 PAKISTAN STUDIES**

2059/02

Paper 2, maximum raw mark 75

This mark scheme is published as an aid to teachers and students, 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.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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Page	2	Mark Scheme	Syllabus	Paper
		GCE O LEVEL - OCT/NOV 2006	2059	02
Qu	estio	n 1		
Stu	udy P	hotograph A (Insert) of a rural area in Hyderabad District.		
(a)	(i)	What is this man doing? Ploughing / cultivating / tilling		[1]
	(ii)	Why is the soil at X a different colour from the soil at Y? it has been ploughed / turned over		
		it has not dried out		[1]
	(iii)	Name three inputs for farming other than soil that can be see bullocks/ cattle/cows/oxen (not buffalo) plough	n on the photogr	aph.
		(manual) labour		[3]
	(iv)	<b>Describe</b> <u>three</u> other processes that may be carried out befor A short sentence about Sowing seeds	e the crop is har	vested.
		Fertilising to provide extra nutrients Weeding to give plants space to grow		
		Irrigation / watering to provide water		
		Spraying pesticide to kill insects / virus / weeds etc.		[3]
(b)	(i)	What is subsistence farming?		[4]
		Producing food for ones self / family (that it not for sale)		[1]
	(ii)	Name <u>two</u> other animals other than those on photograph A the small-scale subsistence farmer. Goats	at may be kept b	y a
		Sheep Buffalo		
		Chickens / poultry Mules		
		Donkeys		[2]
	(iii)	For each of the two animals you have named in (b)(ii), explain the farmer and his family.	how it is import	ant to
		This depends on the animal chosen, accept any appropriate produeggs for eating, milk for drinking Milk	ıct, e.g. Skin for le	eather,
		Milk products Eggs		
		Meat Nutrition		
		Skin / hide		
		Haulage / carrying Allow sale of excess product / barter		
		(res. 1 for each animal, repetition max. 1)		[4]

age	ა	Mark Scheme	Syllabus	Pape
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(c)	(i)	Why does the output of a small-scale subsistence farm vary f Variable rainfall / monsoon / water supply (flooding max. 1)	rom year to year′	?
		Pests and diseases Uses own seed / not HYVa		
		(any line can be developed to 2)		[4]
	(ii)	If a farmer has a good crop and can sell some in the market, h money (capital) he earns to improve his yield (production) for Better seed – HYV, GM, disease/pest resistant Fertiliser – to provide nutrients Pesticides – to kill insects, viruses etc. New animals – younger, better breeding New tools/implements – better/faster work Repairs – to machinery, irrigation system, storage etc. Etc.		he
		(any line can be developed to 2)		[4]
	(iii)	<b>Give two ways in which a small-scale subsistence farmer can</b> Carpenter Blacksmith Shoe-maker/cobbler Driver Etc.	supplement his	income. [2]
Que	estior	1 2		
Stu	dy Fi	g. 1, a map of Pakistan.		
(a)	(i)	name the dam A, Mangla		
	(ii)	<b>name the river B,</b> Jhelum		
	(iii)	state the number in degrees East of the line of longitude C, 68		
	(iv)	<b>name the city D,</b> Sukkur		
	(v)	<b>name the range of hills shaded at E.</b> Sulaiman		[5]
	Stur	dy Photograph B (Insert) showing an area in Hyderaba erlogging and salinity.	d District dama	aged by
(b)		enogging and samity.		

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# (ii) What are perennial canals, and how may they lead to problems such as those in area S?

*definition* (*res.* 1) canals that can supply water all year round from reservoirs / barrages via link canals

problems (res. 1) too much irrigation water leading to evaporation in hot, dry climate rise of water table rise of salts to surface

[4]

#### (iii) How can these problems be reduced?

Lined canals to prevent infiltration Culverts to drain excess water from canals Surface drains to flush out salt from soil Tubewells to lower water table Eucalyptus trees plants to reduce water underground SCARP - government programme + details (max 4) WAPDA - to carry out projects + details (max 4) (N.B. a good account of WAPDA or SCARP scheme could get 4 marks) [4]

#### Read the extract Fig. 2

Pakistan is a water-deficit country. The rainfall is neither sufficient nor regular, and does not meet the growing needs of water. Agriculture is a major user, and good yields depend on the adequate availability of water at the right time. The increasing pressures of population and industrialisation have already placed great demands on water supplies and there are an ever increasing number of local and regional conflicts over water availability and use.

(c) (i) Why do the writers refer to Pakistan as a 'water-deficit country'? insufficient rainfall growing needs (quote of second sentence 2 marks)

[2]

 (ii) Using examples, explain why there are conflicts over water availability and use. Examples of conflicting users (max 2): Farming v industry v domestic v food processing v HEP v other India v Pakistan 1947 – 1960 NWFP and Punjab v Sindh Development of Kalabagh dam (1 mark for a pair of conflicting users)

Explanation: Irrigation for more agriculture Industrialisation – water for washing, cooling, processing Hygiene - need to keep clean Population growth – need for more Electricity for modem technology – because there is not enough (max 1) (1 named user + their need = I mark) (up to 3 uses can be credited)

[7]

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Qu	estio	on 3			
(2)	(i)	Locate an oil refinery near the coast, and	aivo ono roason why i	t is there	
(a)	(i)	Refinery:	give one reason why i	t is there.	
		Karachi / Keamari / Bin Qasim			
		Reason:			
		Imported oil			
		Demand from named area			
		Oilfields in Southern Sindh	(1+1)		[2]
	(ii)	Locate an oil refinery in the province of P	unjab, and give one re	ason why it is	there.
		Either:			
		Mahmood Kot / PARCO			
		Pipeline from Karachi / port			
		Demand from named area / Multan			
		or:			
		Attock / Morga			
		Local oilfield in Potwar plateau Demand from named area / Islamabad / Ray	volnindi		[2]
		d disadvantage of each.	-	-	/antage
	<u>Pip</u> Bul	<b>d disadvantage of each.</b> <u>eline</u> k transfer / large quantities eap (after cost of building)		-	C
	<u>Pip</u> Bul Che	<u>eline</u> k transfer / large quantities eap (after cost of building) <sup>c</sup> – only to a few big centres			Ū
	Pip Bul Che But Cos	<u>eline</u> k transfer / large quantities eap (after cost of building) <sup>t</sup> – only to a few big centres stly to build and maintain			C
	Pip Bul Che But Cos Pro	eline k transfer / large quantities eap (after cost of building) f – only to a few big centres stly to build and maintain blem of leakage	-		Ū
	Pip Bul Che But Cos Pro	<u>eline</u> k transfer / large quantities eap (after cost of building) <sup>t</sup> – only to a few big centres stly to build and maintain			Ū
	Pip Bul Che But Cos Pro Onl <u>Rai</u>	eline k transfer / large quantities eap (after cost of building) f – only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel)			U
	Pip Bul Che But Cos Pro Onl <u>Rai</u> Car	eline k transfer / large quantities eap (after cost of building) - only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline			U
	Pip Bul Che Cos Pro Onl <u>Rai</u> Mo	eline k transfer / large quantities eap (after cost of building) t – only to a few big centres stly to build and maintain oblem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried			U
	Pip Bul Che Cos Pro Onl <u>Rai</u> Car Moi	eline k transfer / large quantities eap (after cost of building) - only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried - smaller quantities			J
	Pip Bul Che Cos Pro Onl <u>Rai</u> Car Mol <i>But</i>	eline k transfer / large quantities eap (after cost of building) - only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried - smaller quantities pensive			Ţ
	Pip Bul Che Cos Pro Onl <u>Rai</u> Car Mol <i>But</i> Exp Cha	eline k transfer / large quantities eap (after cost of building) t – only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried t – smaller quantities bensive ance of accidents (NOT explosion)			J
	Pip Bul Che Pro Onl Rai Car Mol But Exp Cha Tar	eline k transfer / large quantities eap (after cost of building) t – only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried t – smaller quantities bensive ance of accidents (NOT explosion) hker / Lorry			
	Pip Bul Che Dro Onl Rai Car Mol But Exp Cha Tar Car	eline k transfer / large quantities eap (after cost of building) t – only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried t – smaller quantities bensive ance of accidents (NOT explosion) <u>hker / Lorry</u> n go anywhere by road			
	Pip Bul Che Dro Onl Rai Car Mol But Exp Cha Tar Car	eline k transfer / large quantities eap (after cost of building) t – only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried t – smaller quantities bensive ance of accidents (NOT explosion) hker / Lorry			
	Pip Bul Cos Pro Onl Rai Car Moi Exp Cha Tar Car Moi But	eline k transfer / large quantities eap (after cost of building) t – only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried t – smaller quantities bensive ance of accidents (NOT explosion) <u>hker / Lorry</u> n go anywhere by road re products can be carried t – expensive			
	Pip Bul Cos Pro Onl Rai Car Mol But Cha Tar Car Car Mol But	eline k transfer / large quantities eap (after cost of building) t – only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>lway</u> n go to more places than pipeline re products can be carried t – smaller quantities bensive ance of accidents (NOT explosion) <u>nker / Lorry</u> n go anywhere by road re products can be carried t – expensive avy / can only carry small amounts			
	Pip Bul Cos Pro Onl Rai Car Mol But Cha Tar Car Car Mol But	eline k transfer / large quantities eap (after cost of building) t – only to a few big centres stly to build and maintain blem of leakage ly a single product (e.g. Diesel) <u>Iway</u> n go to more places than pipeline re products can be carried t – smaller quantities bensive ance of accidents (NOT explosion) <u>hker / Lorry</u> n go anywhere by road re products can be carried t – expensive avy / can only carry small amounts ance of accidents		• each of 2 ways	

Page 6		Mark Scheme	Syllabus	Paper
		GCE O LEVEL - OCT/NOV 2006	2059	02
Stu	dy Fi	g. 3 which shows some examples of the four main uses of oil.		
(c)	(i)	Name another by-product A. wax / synthetic rubber / detergent / pharmaceutical products / furn	ace oil / etc.	[1]
	(ii)	Name the fourth main use of oil B. fuel		[1]
	(iii)	With reference to Fig. 3 and using your own knowledge, explaimportant to <u>either</u> farming <u>or</u> manufacturing. <u>farming</u> fuel for machines fuel for transport electricity generation – for power fertiliser – for growth } pesticides – for healthy growth } raw material tarmac for better roads / metalled roads lubricants for machines etc.	ıin how oil produ	icts are
		manufacturing   fuel for machines   fuel for transport vehicles   electricity generation – for power / heat / light   fuel for heating   raw material for named product   tarmac for better roads / metalled roads   etc. (the candidate may choose to link this answer (credit ONLY farming OR manufacturing, generation)		) [6]
(d)	(i)	Which gas field produces most natural gas in Pakistan? Sui		[1]
	(ii)	Name <u>two</u> industries in Pakistan that use natural gas as a raw fertiliser cement chemical (not power)	ı material.	[2]
	(iii)	Why is natural gas an important fuel in Pakistan? Can reach remote areas in cylinders Easier to transport than coal Alternative to oil in vehicles Used in power stations Cleaner than oil or coal Reduces dependence on imported fuels Shortage of coal and / or oil in Pakistan Cheaper <u>compared to another named fuel</u>		[4]

Page 7		Mark Scheme GCE O LEVEL - OCT/NOV 2006	Syllabus 2059	Paper 02
Ques	etio			
QUES	5110	11 <del>7</del>		
		ig. 4, a map of the road network in Pakistan in 2002.		
(a) (	(1)	Name the cities X, Y and Z. X Quetta		
		Y Multan		
		Z Hyderabad		[3]
	(ii)	For each of the roads leading to A and B, state the country to	o which they are g	joing,
		and the name of the pass through which it goes.		
		A to China, through the Khunjerab Pass B to Afghanistan, through the Khyber Pass	2 + 2	[4]
(b) (	(i)	Describe the ways in which the road network of Punjab is dif network of Sindh.	ferent from the ro	ad
		Punjab more dense – Sindh less dense		
		Sindh 'other roads' more dense in S – Punjab all over (none in SE	Ξ)	
		More areas in Sindh with few / no roads		
		More foci – fewer centres / foci	prood out	
		Sindh 2 main roads follow R. Indus then W to Karachi – Punjab s Motorway in Punjab, not Sindh	pread out	
		(credit use of comparative word e.g more, less, for	ewer)	[3]
	(ii)	Give reasons for your answer to (b)(i).		
	• •	ideas linked to the following:		
		one river in Sindh – 5 in Punjab – roads follow these routes		
		more desert in Sindh – less habitable large areas of low population density in Sindh –- less need		
		fewer major cities in Sindh – less need		
		ideas linked to industrial development (max 2)		[4]
	(iii)	Explain why there are few roads in the area north of the line	P-P shown on Fig	. 4.
		Mountains		
		Steep slopes Landslides		
		Snow		
		Avalanches		
		Floods		
		Ice / snow/ stones damage road surface Lack of demand		<b>Г4</b> 1
				[4]
		at factors hinder the development of air transport in the area r I weather / snow / ice / fog / heavy rain / floods	north of the line P	-P?
		k of flat land for runways / airports		
		k of good roads to airports		
		k of passengers / freight		
	Prol	blem of blocked radio signals		F # 1
		(any line can be dev. to 2)		[4]
		y was the first motorway in Pakistan built between Islamabad rge centres of population	and Lahore?	
		sed by other populated areas		
		romote growth of industrial estates		
I	larg	e volume of traffic / ease congestion / save other roads		
		er for lorries / large vehicles		
I	IIIJK	from Lahore to Karakoram Highway (answers must relate to motorway, not just roads)		[3]
		(answers must relate to motorway, not just roads)		[3]

Page 8	8	Mark Scheme	Syllabus	Pape
		GCE O LEVEL - OCT/NOV 2006	2059	02
Que	estio	n 5		
Stu	dv Fi	ig. 5, which shows types of employment in rural and urban a	areas.	
		In which area is the proportion of those employed in the pr		st?
		Rural		[1]
	(ii)	What is the main type of employment in the primary sector	in rural areas?	
	(")	Farming/agriculture		[1]
			_	
	(iii)	Why is this type of employment probably under estimated? Family labour / disguised unemployment	?	[1]
				[1]
(b)		y is there unemployment and underemployment in rural and	l urban areas?	
		s. 1 each for rural and urban areas)		
		chanisation of farming k of skills for work		
		k of jobs		
		asonal employment e.g. sugar cane factories		
		k of jobs for women or health, nutrition, medical care for sick and injured		
		nputerisation in offices		
		. (any line max 2)		[5]
(c)	Wh	y is the sector of tertiary employment likely to increase more	o in urban aroas tha	n in
(0)		ual areas?		
		as such as:		
		al – urban migration		
		ease in literacy / more jobs for the educated wth of services / more demand in cities		
		pnomic prosperity / people have more money to spend		
		re transport / shops / offices (named jobs to max 1 without any ex	xplanation)	
	Gro Etc.	wth of informal sector / pavement services		
	L10.	(any line max. 2)		[6]
(d)	(i)	Name a city in Pakistan where sports goods are manufactu	urad	
(u)	(1)	Sialkot or Lahore	ireu.	[1]
	(ii)	How may the presence of the sports industry in this area		
		A increase employment opportunities?		
		Labour intensive		
		Work contracted out to small scale and cottage industries Growth of administrative jobs		
		Growth of transport jobs		
		Growth of tertiary industries with increased prosperity		
		Dry port (related to employment) EPZ		
		B improve the local infrastructure?		
		Power / electricity supply Roads / railway		
		Airport		
		Better water supply		
		Telecommunications (up to 2 examples explained)		
		Dry port (related to infrastructure		
		Example to illustrate A or B (max 1)- not reserved		

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#### (e) How does industry in cities pollute the environment?

Ideas such as:

Effluent in river – effect on fishing, drinking water, irrigation Effluent in sea water – effect on fishing e.g. Indus delta, mangroves Smoke / gases in the air – health problems, acid rain (global warming etc. max 1) Traffic 1 congestion in urban areas Waste from factories and people Traffic / congestion in urban areas Loss of scenery by construction Etc.

Be prepared to take what comes, examples of polluted areas / industries max 2 (Named disease max 2 if different cause)

[5]