UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper

for the guidance of teachers

0448 PAKISTAN STUDIES

0448/02

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.

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

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Pa	Page 2		Ma	ark Scher	<u>ne: Teache</u>	ers' version		Syllabus	Paper
				IGCSE	– May/Jur	ne 2009		0448	02
1 (a)	Stu	Study Photograph A (Insert) showing the Hanna Dam.							
	(i)	(i) Describe the site of the dam.							
	()		p rock face						
		bare	rock/rock	y/barren					
		deep	o valley	} valley					
			ow valley	}					
			er/lower ar						
			valley/trib						
		scre	e/gravel/sa	and					[
	(ii)	Wha	t evidenc	e shows	that the wa	ater level in the	e reserv	voir is low?	
	()					n/sand/flat land a			[
St	udv I	Dhoto	aranh B (lneart) eh	owing the	Balloki Barrag	or		
50	uuyi	noto	graph D (inserty si		Balloki Ballag	ye.		
(b)) Co	mpar	e the barr	age show	n in Photo	ograph B with t	the dan	n in Photograpł	ו A .
		rrage							
			ider/less h						
			both sides	5					
		cana		long ton					
			e railings a r land	along top					[
	1000	matte							Ľ
(c)	Stu	idy Fi	ig. 1, a gr	aph shov	ving the ar	mount of water	r store	d in the reservo	oir of the
	На	nna D	am.						
	(i)	Bv h	now much	did the a	mount of	water decrease	e from	1974 to 2004?	
	(-)					ion gallons	•]
			U			C C			-
	(ii)				int of wate	r stored in the	reserv	oir is decreasin	ıg.
			tion/silting		actation/ou	orarazina/rivor	doposit	ion	
			son ero water sup		restation/ov	vergrazing/river	aeposit	.1011	
					ower rainfa	II/higher temper	ratures/	more evaporatio	'n
			eased usage	-			aturco		[]
						_			-
	(iii)			done to s	top the an	nount of water	in the	reservoir from	reducing
		furth	-						
			raps restation	ı					
			acing	} } of slop	es				
			dging/remc						
			ucing wast		tion				[

Page 3		Mark Scheme:	Syllabus	Paper		
_		IGCSE – M	ay/June 2009	0448	02	
(d) (i)	Free Will Not i	r is HEP (hydel) a chea raw material/rain in mo never run out/renewable mported/mined/drilled ient/high power output			[2]	
(ii)						
					[3]	
(e) Ph	otogr	aph A shows a chair li	ft. This shows that touris	ts may visit the ar	rea.	
(i)	beau lakes wild triba mou	some other tourist attr utiful scenery, views, val s, rivers animals, birds, snakes, t l people, traditional craft ntain climbing, fishing, w of any 2)	flora AND fauna s	S.	[2]	
(ii)	use Gove Infra work mon envii educ cultu less secu incre impr rural	examples in your answernment investment lead structure ey conmental improvement cation iral change isolation irity eased food production oved health facilities	 ling to: roads/airports for travel electricity/water/gas/tele development of small living standards for business people, she e.g. re-afforestation of skills required, more meet other cultures/cult global awareness, trade better sanitation, hospit urban migration reduced 	ecommunications scale industries, opkeepers, craftsm investment in scho ural exchange e als, healthy living	to raise nen, etc. ols	
		nple linked to developme	-	<u> </u>	[5]	
					[Total: 25]	

	Pa	ge 4			Scheme: Teacher GCSE – May/June		Syllabus 0448	Paper 02
2	(a)	The	ere ar		processes of rice		0110	
	()		arves	-	planting	preparation of f	ields growt	h
					the correct order growth, harvesting			[1]
	(b)	Exp	olain		the processes na	thly rainfall in the med in (a) is linke		e Lahore
		Jun Jun	ie–Jul ie–Se ie–Se	y ptember ptember er–October	Rain for planting a High/increasing ra	ainfall for flooding fi rain continues for g	elds	
		(Fig	gure w	vith month fro	m graph linked to p	process max 1) NO	T AVERAGES	[4]
	(c)	(i)	Bigg Doul Dise Drou Strou Grov	er harvest/he ole cropping/r ase/pest resis ight resistanc nger stems ving populatio	avy crop/double yie nulti-cropping stance	nd	eties) of seed.	
					-	rice, Maxipak wheat	t, Nayab 78 cotton)	(max 1) [4]
		(ii)	Stuc 6	ly Fig. 2 agai	n. In how many r	nonths is the rainf	fall less than 40 m	ו m? [1]
		(iii)	Expl Cana Pere Inun Distr Tube Shao Chai Pers Pono Kare Tank Stora	anation of: al irrigation ennial canal fr dation canal f ibution/divers ewell run by e duf, a bucket rsa water drav ian wheel, a ds and tanks ez, a tunnel ca kers carrying age in dam, re	om a dam/headwo rom a river in flood ion canal from a m lectricity on a pole, from rive wn from a well by a waterwheel turned to collect rainwater arrying water from t water eservoir, barrage	ountain stream er or canal nimal power by animal power	mes of low rainfa	11.
				for groundwa nklers	iter			[4]

Page 5		Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2009	0448	02
(d) (i)	silt/lo depo whe	It is alluvial soil? Dam/sediment Disited by rivers/from flooding In they flood ains nutrients/minerals		[
(ii)	Ferti deep fine retai	lain why alluvial soil is good for crop growth. ile/contains nutrients (e.g. nitrate/potash/phosphate texture for drainage/not prone to waterlogging ns moisture/moisture retentive aced each year)	[
Ca Lo Ev Wa De Cc Wa Sil Le	anals b w/lack aporat astage emand onflictir ater po ltation ess in S	/leakage/seepage of domestic, farming, industry users (max 2) ng users/too many users	estern depressions/	
	-			[Total: 2

Page	6	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2009	0448	02
3 (a) St	udy Fi	ig. 3, a map showing three major cities and two	major roads.	
(i)	A – B –	ne the cities A, B, and C. Hyderabad Lahore Peshawar		[3]
(ii)	NE (NW/ (Eas Khyl Cros Follo	ng the map, describe the route of the N5 road sta (to Lahore) 'N then W (to Peshawar/Afghanistan/Durand line) st side of) River Indus ber Pass to Afghanistan sses river at Hyderabad bws River Chenab then Ravi sses River Ravi (near Lahore)/other named rivers/In		hi. [3]
(iii)	Con 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 Ind s not go to Lahore/other large cities ter/more direct		[0]
		ses only one river		[2]
• •	udy Fi kistar	ig. 4, a graph showing freight carried in a year n.	by road and by ra	ailway in
(i)	and Tota Abou Roa Roa sam Both	apare the amounts of freight carried by road a 2006. Il larger by road ut 20× more than railways d increased/rail stayed approx. same/rail increased d 84 – 117 but rail 4 – 6 (1000 million tonnes per e increased 2003–6 decreased in 2000, road always increases	less	
(ii)	railv More More (max Lorri Railv	e roads than railways e road vehicles than rail e places accessible by road/lorries can go any	-	

ersion Syllabus	7	per
9 0448		2
d railways in Balochistan? oan development nd/rock slides/hills make barrier litions /present political instability	low populatic scattered pop Rugged/rock Desert/lack c	[4
evelopment/development of ports nd passes or travel to them	Balochistan Industrialisat Urbanisation Faster travel EPZ and dry Better access Travel to Afg Access for he Promotion of Tourism Mineral explo	n
	Fishing deve Higher incom More security	[6

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]

Page 8	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2009	0448	02
A	ame <i>two</i> human inputs to the steel mills. <i>ny two of:</i> abour, capital, machinery, skills, technology, transpor	t, power, water, etc.	[2]
p La C M S T T T T V W	kplain how human inputs such as those nar roduction. abour – work machines, carry materials, office work apital – wages, machines, technology, investment achinery – faster, better quality, new products kills – computers, office work, machines echnology – quality, speed, modernisation ransport – faster, larger supply, bigger markets ower – efficiency, speed, quality later – for cleaning ny line max 2)	ned in (b)(i) can	improve [4]
A P	That is an Export Processing Zone (EPZ)? In industrial estate roducing products for export igh quality/export quality goods/quality checked		[2]
in In R W R A O D E	xplain how the building of industrial estates dustrial production in Pakistan. crease quality of goods eliable power/telecomm supply dater supply/sanitation/cleanliness bads, railways to and from the estate/transport netwo tractive to investors/government incentives pportunities for more technology/modernisation/spect evelopment in rural areas btential industrial linkages kample of an industrial estate (max 1) ny line max 2 for good development)	ork	increase [5]
Emplo Uses Invest Regul Fixed/ Good In offic Legal/ Skilled Mainly	ibe the characteristics of an industry in the formal yment/not self-employed machinery ment of capital ar working hours set wages quality goods/high value goods ce or factory/in proper buildings/not at home registered/pays tax I labour men on scheme	al sector of employ	ment.
	ives (e.g. health care, education)		[5]
			[Total: 25]

	Page	9	Mark Scheme: Teachers' version IGCSE – May/June 2009	Syllabus 0448	Paper 02
5	(a) St	udy Fi	ig. 5, a population pyramid for Pakistan in 1998.		
	(i)		y many million children were there below the age 19.2 (million) or males 9.7 or 9.8 + females 9.3 or 9.		[1]
	(ii)	-	/ were there more children in the age group 5 to nging birth rates, infant mortality, family planning, co	-	s? [1]
	(b) St	udy th	e sectors X, Y and Z on Fig. 5.		
	(i)	Whi X	ch sector represents the group 'young depende	nts'?	[1]
	(ii)	Whi Y	ch sector represents the group 'economically ac	ctive?'	[1]
	(iii)	Exp More More Ove Sho More Ada Less	numbers of people in sector Z are likely to ha lain the effects of this on the economy and deve e dependents/burden on working population e older family members to care for children e older people to give advice rpopulation/strain on resources rtage/demand of food e medical services needed/hospitals overcrowded e old people's homes ptations in houses for elderly s money for development/burden or pressure on eco t of pensions	lopment of Pakist	
	(c) (i)	Lack Lack Nee Tryii Sup Relig High Wor	lain the reasons for a high birth rate in Pakistan of knowledge of contraception/family planning of availability of contraceptives d for help on farms/increase income ng for a son port in old age gious beliefs/Allah will provide/prestige of large family infant mortality nen at home to care for children/women lack education hot know about problems of overpopulation/large far	ilies tion/marry at a you	ng age [5]
	(ii)	Acce E.g. Red Edu Edu More Hea Clea	lain some measures that could be taken to reduces to, education of, and use of contraceptives/familes Sabz sitara, green star (example of government science need for child labour/ban child labour cation and awareness of population growth/how to i cation of women/jobs for women e clinics and hospitals lthy environment/better sanitation/better living condition water/piped water er nutrition/better food gious support for birth control	ly planning (2 mark heme) mprove living stanc	

Page 1	0	Mark Scheme: Teachers' version	Syllabus	Paper	
		IGCSE – May/June 2009 0448			
(d) (i)	with depo- loss produ short wate litteri burde unen traffic unres	t are the effects of population movements fin Pakistan? opulation/neglect by government/lack of developme of men in rural areas/lack of workers/imbalance uction tage of housing/growth of squatters r/air pollution ng of streets en on e.g. schools, hospitals, power supplies, food nployment in urban areas c congestion st/crime/violence/drugs ad of disease	ent of rural areas d sex ratio/less ag		
(ii)	Lack Oppo to Ca Corre Lack medi	do some people go to live in other countries? of opportunities for professionals (e.g. doctors) ortunities such as construction in the Middle East, u anada uption, lack of security in Pakistan/political instabilit of development in rural areas/lack of opportunitie ical care, quality of life) oposites	ty, unrest		

[Total: 25]