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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

2217 GEOGRAPHY

2217/23

Paper 2 (Investigation and Skills), maximum raw mark 90

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.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	Mark Scheme: Teachers' version	Syllabus	.0	ľ
	GCE O LEVEL – May/June 2012	2217	100	

	Section A	and			
(a) (i)	5698	ambridg			
(ii)	556932 / 3	[1]			
(iii)	Canal (Accept River)	[1]			
(b) (i)	Rapid Powerline Orchard / Plantation Building Spot Height	[5]			
(ii)	Location Change of angle	[2]			
(iii)	1540 metres	[1]			
(c) N or NE Lower land to NE Dam wall on north end of lake V of contours points upstream to south					
(d) NE 535	50 – 5550m or 5.35 – 5.55km				

1

Descending (to NE) 1600 – 1460m Adjacent to river In valley (Sparse) bush

Cultivated land Building / store Huts

Dam

Reservoir

Track / cut line / game trail

Reserve 1 for each of direction, distance, physical and human

[7]

[Max 20]

Page 3		}	Mark Scheme: Teachers' version	Syllabus
			GCE O LEVEL – May/June 2012	2217
(a)	(i)	В		Syllabus Part Add Cannon (1)
	(ii)	Corr	rect labels on Fig. 2	On
	(11)	COII	ect labels of Fig. 2	
(b)	(i)	М		, [1]
` ,		۸roı	und (edge of) Pacific / Pacific ring	•
	(11)	Wes	st coast of Americas	
			t of Asia / Japan / Philippines / Indonesia / Zealand	
			of Indian Ocean	[3
				[Max 8]
(0)	Ma	ander		[4]
(a)	IVIE	anuei		[1]
(b)	App	oropri	ate labels on Fig. 4	[4]
(c)	Fro	sion (of outer bend	
(0)	De	positio	on on inner bend	
		t throu -bow	ugh	[3]
				[Max 8]
				[Max o
(a)	All	of No	rth America / USA / Canada	
			Central America / named country South America / named country	
	Soi	uth of	South America / named country	
	We Isra		Europe / named country	
	Jap			[4]
(h)	(i)	Corr	rect division	[1]
(0)				
	(ii)	Euro	ppe	[1]
(c)			uring country / long shared border	
			rich country / perceived opportunity ne before – tradition / language	[2
		, 0 -		
				[Max 8]

			32
	Page 4	Mark Scheme: Teachers' version	Syllabus
		GCE O LEVEL – May/June 2012	2217
5	(a) (i)	Completion of graph	Syllabus 2217 Add Cannon Indiana
	(ii)	1 480 000	TOSE
	(iii)	2003 – 2005	[1]
	`´Exc	erall increase ept decrease in 200 estant 1999 – 2000	[2] [2]
	(c) (i)	2002	[1]
	(ii)	Sold within internal market Storage for export in future years	[1]
	(iii)	Export demand determines production Demand for vehicles in internal market is stable Greater production means more can be exported	[1]
		Greater production means more can be exported	ניו
			[Max 8]
6	(a) (i)	Explosion	[1]
	(ii)	Dolphins and (sea) turtles	[1]

[1]

[1]

[2]

[2]

[Max 8]

(iii) Through bedrock

(c) Containment booms

(d) Loss of fishing industry

Decreased food supply

Skimmers / clean up tools

Loss of tourist trade / loss of income in service industries

(b) 86 days

Pa	age 5	Mark Scheme: Teachers' version Syllabus	
		GCE O LEVEL – May/June 2012 2217	
		Section B	76.
(a)	Doi Che Do Ave Me Glo We Che Wo Let	Mark Scheme: Teachers' version GCE O LEVEL – May/June 2012 Section B ep away from base of cliff/overhang n't stand on edge of cliff eck tide times before setting off fieldwork at low tide oid slippery rocks asure waves from safe position, not in sea/don't go too far/deep into sea/face the sea oves to protect hands ear suitable/waterproof clothes/shoes eck weather conditions/for stormy weather/avoid big waves ork in pairs/groups/not alone to others know where you are ke mobile/cell phone mblock/first aid kit/bottled water	oridis
	3 @		[3]
(D)) (i)	Use stopwatch/timer/clock Count number of waves breaking/going up beach/hitting stick or person In 1/5/10 minutes/specified time Take an average of a number of readings ^ count number of waves A do this appears times	[0]
	(ii)	^ do this several times Plot bar B on graph = 9 Ignore width of bar and shading	[3] [1]
	(iii)	High frequency/many waves per minute/10 – 16 waves per minute/short wavelength Strong backwash/weak swash/stronger backwash than swash Large height/big amplitude Erosional/takes away more sand than brings in	
		^ powerful/strong ^ large 2 @ 1	[2]
(c)	(i)	Tape measure: lay it out along transect line Measure distance between ranging poles/put poles at equal distance Ranging poles: poles at either end of measured distance Ensure they are vertical Rest on surface/equal depth into sand Clinometer: student holds clinometer next to top/at agreed height on ranging pole Sight other ranging pole at top/agreed height/same height	

[5]

[1]

Allow clinometer to adjust to angle

(ii) 4.5

Read angle/measure angle/measure slope Reserve 1 mark for each piece of equipment

Page 6		Syllabus r
	GCE O LEVEL – May/June 2012	2217
(iii)	Hypothesis is true/agree/beach is steeper wher (reserve) Hypothesis is wrong/partly true = 0	Syllabus 2217 re waves are more frequent rage angle is 9°
	Average frequency at A is 16 per min. and averaverage frequency at B is 9 per min. and avera Average frequency at C is 7 per min. and avera Need comparison of two sites (4 pieces of data A has most waves per minutes/highest wave has least waves per minute/ lowest wave frequency	age angle is 4.5° age angle is 3.25°) frequency and steepest angle of slope/0
(d) (i)	Put quadrat on ground/used quadrat Select sample of 7 stones Measure stone with tape/rule/callipers/pebbleo Measures longest axis/length Read in mm	meter
	Add up measurements and divide by number of	f samples/calculate the average length [3]
(ii)	Diamond-shaped plot on scatter graph 10 m	= 76 mm (on line) [1
	Hypothesis is true/partially true/true up to 10 r more frequent Hypothesis is wrong = 0	n/larger beach material where waves ar
	At A wave frequency greatest, beach materia beach material is smallest	I is largest/at C wave frequency is leas
	At A at 2 m average frequency = 16 and beach At C at 2 m average frequency = 7 and beach r	
	Transect average overall: A = 89, B = 54.6, C = Need A B C comparison at specific distance (4	
	But an anomaly at 12 m/where there is large frequent	er beach material where waves are les [²
rock Coll Cou	e measurements of wave frequency (students of samples ect data at different times of year/different seasont waves breaking over 10 minutes/specified tinect data at more locations/transects/other beach	ons/ different day ne and calculate average

More students do same measurements/student repeats experiment/measurement several

[3]

Collect data in different weather conditions

Use more accurate measuring instrument

	Page 7		,	Mark Scheme: Teachers' version	Syllabus	2.D
	i age i			GCE O LEVEL – May/June 2012	2217	St.
	(f)	Bre Off:	akwa shore	nrough: her/harbour wall/ harbour he barrage barrier out at sea defences/sea wall		W. PapaCambridge
		Gro Rep Rep	oyne olenis moval reser	arough: chment/man-made beach I of material eve for waves or beach		[2]
					L	Total: 30 marks]
8	(a)	Infl Infl Val	uence uence ue/co ailabili	growth from centre outwards/built at different times e of physical features such as river valley e of human features such as railways, roads/accessi est of land (for different uses)/price of land varies ity of space/land	ibility	[2]
	(b)	(i)	Mad	le location le a decision about the score for each category/wha a tick in the appropriate column/filled in the chart/sh	•	as the score [2]
		(ii)	Give Che Prac	ortunity to test features/grading to see if they are sues a known standard/control to compare against ck on methodology consistency/check for any errorsetice survey/get used to sheet roves ability to work as a team		_
	(c)	(i)	2 ma	npletion of bi-polar graph for area B arks for plots (4 correct = 2 marks, 2/3 correct = 1 m ark for line	ark)	[3]
		(ii)	near	a C/furthest from town centre has positive/highest rest to town centre has negative lowest score or total eases as move away from town centre		
			A= -	-7, B = 0, C= +13, (any 2)		
			Area Area Area Incre	a C has +2 for six features but areas A/B has +2 for a A has -2 for 4 features but area C has no minus so a C has highest score for every feature a C has all neutral or positive scores but area A has ease in feature scores from A to B to C ept for open space/vandalism/litter	cores	cores
	LX			opt for opon space, varidation, litter		[۳]

Page 8		Mark Scheme: Teachers' version	Syllabus	0	
i age o		GCE O LEVEL – May/June 2012	2217	80.	
(iii)	Scor Scor	road may not be representative of the area/only thres may vary if done at different times/different dayses are subjective/biased	ee roads surveyed y e.g. education, crim	and Cambridge	
(d) (i)	Appı	tified sampling/reflect population ropriate gender balance/male – female balance ropriate age balance/different ages			
(ii)		ax for Systematic or Random sampling ling Surgery 5 – 30 and Cinema more than 30		[3] [1]	
(iii)	Peop Peop Estir Take Don	y people will not walk to services/go by car/bus/transple may not go to the nearest service/more than one ple walk at different speeds/people walk faster on or ple walk by different routes mated times may be inaccurate/vague/people don't be them longer when it's busy of the specific services	e service to go to ne day than another		
	2@	1		[2]	
(iv)		nplete score for local store = 3 culate accessibility index score = 20 1		[2]	
(v)	Plot	answer to (d)(iv) - should be 20 above resident 1	on Area B of dispers	ion graph [1]	
(vi)	Circl	e median value of area C = 22		[1]	
(vii)	Acce three Med Com More	othesis is not true/false/disagree essibility index values have a similar range in all e areas/no clear pattern lian value is higher in area C/very similar aparison of A = 20 and C = 22 (allow score or index, e index values over 25 in area C than area A		pattern in all	
		othesis is true = 0 eference for credit to area B		[3]	
are. Var	(e) Accessibility to different services depends where people live in an area/some houses are/people live further away from services than others Variable access to paths/people walk by different routes				

People may not go to the nearest service/more than one service to go to

2@1

[Total: 30 marks]

[2]