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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 October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2		Syllabus er
	GCE O LEVEL – October/November 2011	2217 232
(a) (i)	Surfaced	Phile.
(ii)	Minor trigonometrical station	Syllabus 2217 Photocombridg [1]
(iii)	Terminal building	
(iv)	Ruin	[1]
• • •	Cliffs Rocks	
	Headland / peninsula (not Point)	[2]
(vi)	Swamp	[1]
	Runway Docks	[2]
(b) (i)	073492	[1]
(ii)	SW	[1]
Pool Hote Jetty Tenr	el	[4]
(d) 1950	0–2050	[1]
Rive Flow Valle Con Rise Valle	er with two tributaries er source vs NE ey vex slopes es to 550+ ey drops to 75 o peaks	
	erve 1 for drainage	[4]
		[Total: 20]

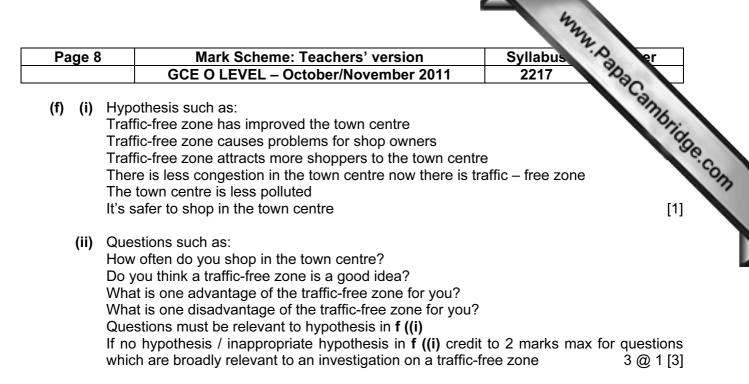
	Par	ge 3	Mark Scheme: Teachers' version	Syllabus " Syllabus er
	гас	Je J	GCE O LEVEL – October/November 2011	2217 22
2		Bar Bes	e ground ide road it to garbage area	Syllabus 2217 Bhacambridge.con
		Flat Stra Dirt		[3]
c)		Dus Nois Lac Lac	shelter from rain / sun st from road se from traffic k of privacy k of security	
		Rub	bish is source of disease	[3]
				[Total: 8]
			on 40% line for primary condary and tertiary also accurate	[2]
		Sri I	Lanka more primary / South Korea less primary Lanka less secondary / South Korea more secondary Lanka less tertiary / South Korea more tertiary	[3]
	(c) Decrease in primary industry Increase in secondary industry Increase in tertiary industry		ease in secondary industry	
		Incr	ease in quaternary industry	[3]
				[Total: 8]
			222	
	(a)	(i)	620	[1]
		(ii)	7	[1]
	(1	iii)	0–10 and 60–350 4.0–4.6 and 5.6–6.0	[2]
	(i	iv)	No relationship	[1]

Pa	ige 4	4 Mark Scheme: Teachers' version Syllabus	A er
		GCE O LEVEL – October/November 2011 2217	Pac
(b)	Page 4 Mark Scheme: Teachers' version Syllabus GCE 0 LEVEL – October/November 2011 2217 (b) Converging plates Lock together Release causes seismic waves Shallow focus earthquakes at subduction zone Deep focus earthquakes further along plate boundary / under other plate		
			[Total: 8]
(a)	(i)	Correct rainfall plot Correct temperature plot	[2]
	(ii)		[²]
	(iii)	1880 mm	[1]
	(iv)	Peak temperature is May to September	[1]
(b)	Thi	ip tip leaves in smooth bark allow buttress roots	[3] [Total: 8]
(a)	(i)	Correct division Correct shading	[2]
	(ii)	% residents of Iceland has decreased / % international tourists has increas	ed [1]
(b)	(i)	Correct completion of graph	[1]
	(ii)	Italy and Spain	[1]
(c)	Gla Lav Wa Hot Nat Sho (Blu	eysers aciers va fields aterfall of springs ational Park forelines lue) Lagoon attractions = 1 mark	[3]

Page 5		M	Mark Scheme: Teachers' version		Syllabus	er		
	•		GCE	O LEVEL – October	/November 2011	2217	Day 1	
				Se	ction B		annb.	
(a)	(i)	Chee Worl Let p Wea Look Do n Worl	Mark Scheme: Teachers' version Syllabus GCE O LEVEL – October/November 2011 2217 Section B Section B Check the depth of water / do not work if river is in flood / storm Check current / velocity of river / do not work if river is fast-flowing Work in pairs / groups of three / do not work alone Let people know where you are going / take mobile phone Wear waterproof clothing / wellingtons / protective clothing / shoes / sunblock Look out for dangerous animals Do not do fieldwork if river is polluted / Weil's disease / water bottle Work in daylight / not in dark Beware of slippery rocks / sharp stones 3					
	(ii)	Prac		logy on what measu ork techniques	rements to take			
					tion / get to know the	river / dangers	2 @ 1 [2	
				poles / tape measur re across river / lay p	e oole across river (1+1)		
(c)	Stro Dej Equ Re: 1 m	etch ta pth of uipme st rule nark fo Com	ape measu river: ent: ruler / n er on river b or equipme apletion of c	re across river / lay p neasuring stick / pebl ed / take reading at s	bole across river (1+1 ble & string surface / wetted leng hod for both measure	th of string or pole (1		
(c)	Stro Dej Equ Re: 1 m	etch ta pth of uipme st rule nark fo Com Plot 1 ma	ape measu river: ent: ruler / n er on river b or equipme apletion of o 0.33 deep ark for both	re across river / lay p neasuring stick / pebl ed / take reading at s nt & 1 marks for met	bole across river (1+1 ble & string surface / wetted leng hod for both measure	th of string or pole (1	+1) [4	
(c)	Stro De Equ Re 1 m	etch ta pth of uipme st rule nark fo Plot 1 ma Shao 6.7–	ape measu river: ent: ruler / n er on river b or equipme opletion of o 0.33 deep ark for both de in river o 6.9 metres	re across river / lay p neasuring stick / pebl ed / take reading at s nt & 1 marks for meth cross-section at 1.5; 0.2 deep at 2. plots, 1 mark for cro channel = 1 mark	bole across river (1+1 ble & string surface / wetted leng hod for both measure .0 ss-section line	th of string or pole (1	[4	
(c)	Stro De Equ Re 1 m	etch ta pth of uipme st rule nark fo Com Plot 1 ma Shao 6.7– 6.6– How	ape measu river: ent: ruler / n er on river b or equipme apletion of c 0.33 deep ark for both de in river c 6.9 metres 6.69, 6.91-	re across river / lay p neasuring stick / pebl ed / take reading at s nt & 1 marks for meth cross-section at 1.5; 0.2 deep at 2. plots, 1 mark for cro channel = 1 mark = 2 marks -7.0 metres = 1 mark vn flow / speed of riv	oole across river (1+1 ble & string surface / wetted leng hod for both measure .0 .0 .ss-section line	th of string or pole (1	[4 [3 [2	
(c)	Stra De Equ Re: 1 m (i)	etch ta pth of uipme st rule nark fo Com Plot 1 ma Shao 6.7– 6.6– How Why All m	ape measu river: ent: ruler / n er on river b or equipme apletion of c 0.33 deep ark for both de in river c 6.9 metres 6.69, 6.91- : slows dow : bed & bai	re across river / lay p neasuring stick / pebl ed / take reading at a nt & 1 marks for met cross-section at 1.5; 0.2 deep at 2. plots, 1 mark for cro channel = 1 mark = 2 marks -7.0 metres = 1 mark wn flow / speed of riv nks create friction wit	bole across river (1+1 ble & string surface / wetted leng hod for both measure 0 ss-section line er th moving water / roc ream from A to B to C	th of string or pole (1 ements k obstacles in water ([4 [3 [2 (1+1) [2	
(c)	Stro De Equ Re: 1 m (i) (ii) (iii)	etch ta pth of uipme st rule nark fo Com Plot 1 ma Shao 6.7– 6.6– How Why All m	ape measu river: ent: ruler / n er on river b or equipme apletion of c 0.33 deep ark for both de in river c 6.9 metres 6.69, 6.91- : slows dow : bed & bai	re across river / lay p neasuring stick / pebl ed / take reading at s nt & 1 marks for meth cross-section at 1.5; 0.2 deep at 2. plots, 1 mark for cro channel = 1 mark = 2 marks -7.0 metres = 1 mark vn flow / speed of riv nks create friction wit nts increase downstr	bole across river (1+1 ble & string surface / wetted leng hod for both measure 0 ss-section line er th moving water / roc ream from A to B to C	th of string or pole (1 ements k obstacles in water ([4 [3 [2 (1+1) [2	
(c) Vidth	Stro De Equ Re: 1 m (i) (ii) (ii) (iii)	etch ta pth of uipme st rule nark fo Com Plot 1 ma Shao 6.7– 6.6– How Why All m	ape measu river: ent: ruler / n er on river b or equipme apletion of c 0.33 deep ark for both de in river c 6.9 metres 6.69, 6.91- : slows dow : bed & bai	re across river / lay p neasuring stick / pebl ed / take reading at s nt & 1 marks for meth cross-section at 1.5; 0.2 deep at 2. plots, 1 mark for cro channel = 1 mark = 2 marks -7.0 metres = 1 mark wn flow / speed of riv nks create friction wit nts increase downstr of comparable data (bole across river (1+1 ble & string surface / wetted leng hod for both measure 0 wss-section line th moving water / roc ream from A to B to C need unit)	th of string or pole (1 ements k obstacles in water ([4 [3 [2	
	Stra De Equ Re: 1 m (i) (ii) (ii) (ii) (ii) (iv)	etch ta pth of uipme st rule nark fo Com Plot 1 ma Shao 6.7– 6.6– How Why All m	ape measu river: ent: ruler / n er on river b or equipme apletion of c 0.33 deep ark for both de in river c 6.9 metres 6.69, 6.91- : slows dow : bed & bai	re across river / lay p neasuring stick / pebl ed / take reading at s nt & 1 marks for meth cross-section at 1.5; 0.2 deep at 2. plots, 1 mark for cro channel = 1 mark = 2 marks -7.0 metres = 1 mark wn flow / speed of riv nks create friction wit nts increase downstr of comparable data (bole across river (1+1 ble & string surface / wetted leng hod for both measure 0 vss-section line th moving water / roc ream from A to B to C (need unit) B	th of string or pole (1 ements k obstacles in water ([4 [3 [2 (1+1) [2	

	Mark Scheme: Teachers' version	Syllabus A	er
	GCE O LEVEL – October/November 2011	2217 23	
(d) (i)	Pebble size: measure long axis / length of pebble Roundness: estimates roundness of pebble by comparing	Syllabus 2217 with chart 2 size & roundness of per	ambri
(ii)	Plots on Fig. 4 (Size: 9; Roundness: 3.5)	2	@1
(iii)	Hypothesis 2 is correct – there is a relationship between	size & roundness of pe	bbles -
	reserve As pebble size decreases roundness score increases or v it is a negative correlation (relationship)	rice versa /	[2]
(iv)	Water becomes more powerful More attrition / erosion / pebbles crash into each other Pebbles crash into bed and banks / abrasion Smaller / rounder pebbles are moved further downstreat transport Longer duration of transport so more attrition / erosion tak		asier to [2]
Inve	e depth points across river estigation on another river estigate volume or weight		@ 1 [4] tal: 30]
		[10	tai. 50j
(a) (i)	Where / which roads to do the survey Location of survey points / safe place / away from traffic li Measure distance from town centre Which day / when to do the survey What time(s) to do the survey How long to record / count How many surveys to do in one day How to organise themselves – e.g. one student on eac students in each group / assigning students to sites What equipment they would need – stopwatch, counters, Synchronise timing Classification of traffic / what is traffic How to count and record / tally method Prepare tally chart	h side of the road / nur clipboard, paper for recc	

Page 7	Mark Scheme: Teachers' version	Syllabus Syllabus	
	GCE O LEVEL – October/November 2011	2217 22	
(b) (i)	Cambridge (Road)	Calm	
(ii)	Two bars drawn on Fig. 5, shading not required Site 6: 100 vehicles (1 cm) Site 8: 320 vehicles (3.2 cm)	Syllabus 2217 2217 2 @ 1	1dge.com
(iii)	Hypothesis 1 is incorrect / false / partially true – reserve No clear pattern on the four roads Two roads show less traffic further away from centre / Que Two roads show more traffic further away from centre / We But difference in amount of traffic variation is small on all r Amount of traffic varies between roads not distance from o Credit paired data for same road to 1 mark max – reserve	eens Rd. / Robertson Dr. ellington Dr. / Cambridge Rd roads centre	
(c) (i)	Less data to work with so easier to use Both sites along each road have similar results Take too long to do all 8 sites		[1]
(ii)	Flow lines drawn on map – mark width of arrow base Towards town centre: 90 vehicles (0.9 cm) Away from town centre: 45 vehicles (0.45 cm)	2 @ 1 mark	[2]
(iii)	Queens Road Robertson Drive Wellington Drive Must have road / drive		[1]
(iv)	Hypothesis 2 is correct / the amount of traffic going town town centre will change – reserve More traffic / wider arrows going towards centre at 08.00 / More traffic / wider arrows going away from centre at 17.00 Each road has the same pattern of movement Credit paired data for am & pm for any 1 road to 1 mark m	morning 0 / evening	the [4]
Mor Sur Cor Mor Use	veys done more frequently during the day re survey points to give greater coverage / survey more roa veys done on different days nparison with survey done on a non-work day such as wee re students / groups doing survey to minimise tallying errors counters / stopwatch ssification of types of traffic	kend	[3]
	ill be more traffic / many cars / lots of cars / many people mer / one part of the year / weekend / evening / morning / h	holiday time / hotter / sunny	



[Total: 30]