MARK SCHEME for the October/November 2012 series

2217 GEOGRAPHY

2217/22

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Pa	ge 2		labus Paper			
			GCE O LEVEL – October/November 2012 22	217 22			
1	(a)	(i)	8383	[1]			
		(ii)	827852 or 828852	[1]			
	(b)	(i)	Track / cut line / game trail Staff quarters Quarry / excavation Power line	[4]			
		(ii)	NE - SW alignment through 7487 Correct at Easting 75 and wide tarred road junction	[2]			
	(c)	(i)	South-east Turns south	[2]			
		(ii)	9.6 – 10(km)	[1]			
	(d)	 (d) High land Above 1260 / 1300m Steep(er) slopes Mainly in S / SW of map Smaller areas Boganga Hills / Sable Peak / Worm Wood Estates 					
	(e)	(i)	Bridge Foot Suspension Bridge Dam Ford / through river	[1]			
		(ii)	Variable width Meanders Tributaries Flows east Rapid Splits and rejoins / braided 1180 – 1140m				
			Ox bow lake Gentle gradient	[5]			
				[Max 20]			
2	(a)	(i)	Correct position of line	[1]			
		(ii)	West has lower than average flow / below 100% / record low flo East has higher than average flow / above 100%	w [2]			
		(iii)		[1]			

	Page 3	Mark Scheme	Syllabus	Paper
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	Speed of Less / s (More) of	decreases (Reserve) of flow - decreases (Reserve) slower erosion deposition ly transport smaller material		[4]
				[Max 8]
3	(a) (i) G A/ A/ F			[4]
	(ii) 2			[1]
	(11) 2			[']
	(Shelter (Small)	each / sand red) harbour		[3]
	,			
				[Max 8]
4	(a) (i) Pai	raguay / Argentina / Uruguay		[1]
	(ii) US	A / Canada / Japan		[1]
		ints of arrow and direction I line for arrow		[2]
	1950 – 1950 – 1950 – 1980 – 1980 – 1980 –	1980 NE to high pop density / urban / SE / Rio / Sao 1980 NE to Brasilia 1980 high pop density / urban / SE / Rio / Sao Paulo 1980 Minas Gerais to high pop density / urban / SE / 2010 surroundings to Manaus 2010 high pop density / urban / SE / Rio / Sao Paulo 2010 high pop density / urban / SE / Rio / Sao Paulo 2010 high pop density / urban / SE / Rio / Sao Paulo	area to Brasilia ′ Rio / Sao Paulo a area to Amazona: area to Centre Wo	S
	Reserve	e 1 for each time period		[4]

[Max 8]

Page 4			Mark Scheme	Syllabus	Paper
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5	(a)		prrect height for 2008 prrect height for 2009		[2]
	(b)	(i) 27 –	- 28.5		[1]
		(ii) 2.5 -	- 3.5		[1]
	(c)		eased Italy stayed the same der stays the same		[2]
	(d)	Correct of Correct l	division of chart key		[2]
					[Max 8]
6	(a)	Correct t Accuracy	riangle y within triangle		[2]
	(b)	Thailand South Af			[2]
	(c)	Seconda later de	decreases ary increases ecreases increases		[4]
		, - , -			[Max 8]

7 (a) Each horizontal pairing = 1 mark. Use ticks/crosses here.

	High pressure	Low pressure		
Air is	sinking	rising		
Weather conditions change	slowly	rapidly		
Expected weather is	dry	wet		

[3 × 1=3]

[1]

(b)	(i)	Examples: look for two points
		Index pointer shows previous recorded value / align both pointers(1)
		Arrow / pointer /needle moves on dial (1)
		Difference between index pointer and arrow/ pointer needle / shows change (1)
		Read value/pressure on dial (1)

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(iii)		[1]		
(iv)	To g	<u>mple</u> jet comparable reading / consistent / fair / reliable <u>Γaccurate</u>		[1]
(v)	Con Rea	<u>mples: look for two points</u> es / cups revolve / spin / turn / rotate /moves (1) d speed off meter (1) ws reading as km per hour (1)		
				[1 + 1 = 2]
(c) (i)		on scatter graph 13 th (<u>1016mb & 12 km per hr</u>) & 19 nama. <u>1 mark per plot</u> .	9 th (<u>1017mb & 7 k</u> i	<u>m per hr</u>) for [1 + 1 = 2]
(ii)	Нур	othesis is NOT TRUE / as AP increases wind speed	d does not decrea	se –
		<u>ept</u> As AP increases, wind speed does slightly / pos No relationship between AP and wind speed (1)	sitive relationship (1)
	e.g. e.g. spee e,g.	<u>a evidence</u> : at 1019mb speed is 13 km/hr but at 1010mb speed at same AP wind speeds have large extremes (1) a eds /range 3-12 km/hour (1 max) <u>(ALSO ok if use 14</u> at same wind speed AP has large extremes (1) at 4 019mb (1 max) (<u>ALSO ok if use 7 km/hr line)</u>	at 1016mb there a 012mb/1019 lines	re 4 different
(d) (i)		<u>nary data</u> : using a rain gauge & measuring the spee ondary data: researching on the internet & reading a		rt (1)
	Marl	k as 1 correct = 0, 2 or 3 correct = 1, all 4 correct =	<u>2.</u>	[1 + 1 = 2]
(ii)	Plot	2 bars for 18 th in Manama: July= 999 mb, Jan = 10	16 mb	[1 + 1 = 2] [1 + 1 = 2]
(iii)	Нур	othesis is TRUE		
	AP ł	nas larger differences in Manama / lower difference	s in Jakarta (1)	
	In M	dit data up to 3 max with reserve of 2 marks lanama AP varies between 16-23 mb between Jan akarta AP varies between 1-3 mb between Jan & Jι compare individual data on any dates		

	Page 6			Mark Scheme Syllab				Syllabu	us Paper			
				GCE	O LEVE	L – Octo	ber/Nov	vember 2	012	2217		22
	(e)	May Data The Data How Una Tim	/ not a only se da a coll v acc able to e zor	have can y collecte ays may r ection on urate wer o check the ne/comm	ried out p d for 10 not be typ nly done t re reading he results unication	bilot study day perio pical cond twice a ye gs /stude s from otl	y (1) ods (1) ditions (ear (1) ent error her scho e difficu	1) s (1) col / confi lties/issue	dence in o	orovements		[1 + 1 = 2]
	(f)			<u>ch as:</u> r 1 max a	in accept	able hyp	othesis	regarding	tempera	ture (1)		
		Whe Deta	ere th ails o		ter is loca s taken e	e.g. maxir		hade / Ste inimum te		screen (1) es (1)		
				dings are							[1 +	1 + 1 + 1 = 4]
8	(a)	(i)	<u>Only</u>	<u>v two ans</u> v	wers pos	sible; do	NOT cr	edit exam	ples of ty	pe or initia	<u>ls</u> .	
				ardware. rofession	al service	Э.						[1 + 1 = 2]
		(ii)	To s To g To s	roup <u>sim</u> how a pa	<u>ilar</u> shops ittern of s	s / servic	es toget ervices (-	e/ can com	pare (′	1) [1 + 1 = 2]
		(iii)	Arou In the Sout Awa	e market th and ea	(1) st of mar west of t	et area (´ ˈket (1) the main)				[1]
		(iv)	Alon To th On th Clos Clos	mples og the ma ne east o he edge se to the t se to petro east of ma	f the CBI of the cer ous station ol station	D (1) ntral area on (1)	a/CBD /	out of tow	'n (1)			[1]
		(v)	Exar W & Supe Supe Iorrie Sma Supe	mples G locate ermarkets ermarket es deliver ill shops/s ermarkets	d where s are loca custome ing good stores ca s need m	ated for tr ers may u ls (1) in afford r iore spac	ravelling se vehic rent in c ce / whe	shoppers cles so ne entre (1) re land is	s / access ed space cheaper	frequently for people for parking (1) n centre (1	e in ver g / for a	(1) hicles (1)

Page 7	,	Mark Scheme	Syllabus	Paper
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(vi)		ence does SUPPORT Hypothesis 1 / it is TRUE / co to market –	ommercial centre	is
	High Diffe Offic Gove	ps surround market area / on three roads (1) a density of small shops in centre (1) erent types of shops and services in centre (1) ces/professional services in centre (1) ernment offices in centre (1) station in centre (1)		[1HA + 2 = 3]
(b) (i)	Resi /rush 10 m Worl	<u>mples</u> ults will not be affected / distorted by people going to n hour traffic (1) ninutes is long enough to get valid results / not too lo king days will give typical pattern of movement in we eating the survey on two days to get an average / ch	ong to get bored eek rather than w	(1) veekend (1)
(ii)	Com	pletion of survey sheet – tally and total for bicycles	& mopeds	
	= 18		·	
	<u>1 ma</u>	ark for total of 18		[1 + 1 = 2]
(c) (i)	Insic	npletion of 100 pedestrian isoline which must go: le 97 and between 110 and 93 on right (1) side 102 and between 110 and 84 on left (1)		[1 + 1 = 2]
(ii)	Sha	ding of area over 100 vehicles.		[1]
(iii)	Wou Wou	<u>mples</u> Ild separate out two groups of vehicles (1) Ild show when people went to different areas on different areas on different areas on different areas on different show where 2/3 wheeled vehicles went compared		
(iv)		othesis is TRUE / pedestrian flows are highest in co owest – <u>1 mark</u>	mmercial centre	/ vehicle flows
		estrian flows are over 150 in commercial centre (1) icle flows are between 25 – 50 in commercial centre	. (1)	[1HA + 2 = 3]

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(v) NOTE 1 reserve mark for Pedestrian flow and 1 reserve mark for Vehicle flow

Examples:

Pedestrian flows are highest in area of market because:

People walk to buy food/ household/convenience goods/go to shop (1) People come from nearby housing areas (1) Many people may not own vehicles / don't need vehicles (1) Likely to be more work in centre (1) Quicker to get round shops than with vehicle (1)

Vehicle flows are highest along main road because:

People travelling between other settlements/ through traffic /commuting (1) People go to supermarkets to buy in bulk (1)

Vehicles lowest in centre because of narrow roads/lack of parking space (1)

[1R + 1R + 1 = 3]

(d) Question is about this fieldwork investigation being done better in this town.

Ideas include:Surveys done more frequently during the day (1)Surveys done on >two working days (1)More survey points to give greater coverage (1)Comparison with survey done on a non-work day such as weekend (1)At least three people doing survey so more checking (1)Ensure each group has watch / stopwatch (1)Use of counters / 'clickers' (1)Carry out pilot study (1)[1 + 1 + 1 = 3]