CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

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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.

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Page 2		2			rk Scheme			yllabus	S.	
			GCE C	LEVEL –	October/No	vember 2012		2217	X	200
(a)	(i)	8383								amp
	(ii)	8278	52 or 828	852						stide
(b)	(i)	Staff	quarters ry / excav	/ game tra ation	il					na Cambrida
	(ii)			nent throu ing 75 and		road junction				[2]
(c)	(i)		n-east s south							[2]
	(ii)	9.6 –	10(km)							[1]
	Ste Mai	ep(er) inly in	60 / 1300 slopes S / SW of	map	' Sahla Paak	/ Worm Wood	Fstatos			[3]
(e)	Ste Mai Sm	ove 12 ep(er) inly in aller a Bridg Foot Dam	60 / 1300 slopes S / SW of reas Boga e Suspensi	map anga Hills / on Bridge	' Sable Peak	/ Worm Wood	l Estates			[3]
	Ste Mai Sm	bye 12 ep(er) inly in aller a Bridg Foot Dam Ford Varia Mear Tribu Flows Rapid Splits 1180 Ox bo	60 / 1300 slopes S / SW of reas Boga e Suspensi / through ble width iders taries s east	map anga Hills / on Bridge river ns / braide		/ Worm Wood	l Estates			[3] [1]
	Ste Mai Sm	bye 12 ep(er) inly in aller a Bridg Foot Dam Ford Varia Mear Tribu Flows Rapid Splits 1180 Ox bo	60 / 1300 slopes S / SW of reas Boga e Suspensi / through ble width iders taries s east d and rejo – 1140r pw lake	map anga Hills / on Bridge river ns / braide		/ Worm Wood	l Estates			[1]
	Ste Mai Sm	bye 12 ep(er) inly in aller a Bridg Foot Dam Ford Varia Mear Tribu Flows Rapid Splits 1180 Ox bo	60 / 1300 slopes S / SW of reas Boga e Suspensi / through ble width iders taries s east d and rejo – 1140r pw lake	map anga Hills / on Bridge river ns / braide		/ Worm Wood	I Estates			[1]
	Ste Mai Sm (i) (ii)	ove 12 ep(er) inly in aller a Bridg Foot Dam Ford Varia Mear Tribu Flows Rapic Splits 1180 Ox bo Gentl	60 / 1300 slopes S / SW of reas Boga e Suspensi / through ble width iders taries s east d and rejo – 1140r pw lake	map anga Hills / on Bridge river ns / braide		/ Worm Wood	I Estates			[1]
(a)	Ste Mai Sm (i) (ii)	ove 12 ep(er) inly in aller a Bridg Foot Dam Ford Varia Mear Tribu Flows Rapic Splits 1180 Ox bo Gentl Corre West	60 / 1300 slopes S / SW of reas Boga e Suspensi / through ble width iders taries s east d and rejo – 1140r bw lake e gradien	map anga Hills / on Bridge river ns / braide n t n of line r than aver	d	elow 100% / re		flow		[1] [5] [Max 20]

			444	
	Pag	je 3	Mark Scheme Syllabus	
			GCE O LEVEL – October/November 2012 2217	
		Speed Less / s (More)	Mark Scheme Syllabus GCE O LEVEL - October/November 2012 2217 decreases (Reserve) 2217 of flow - decreases (Reserve) solwer erosion deposition ly transport smaller material	[4] [4] x 8]
3	(a)	(i) G A / A /		
		F		[4]
		(ii) 2		[1]
		(Shelte (Small)	each / sand red) harbour	[3]
		,		x 8]
			נויום	x o]
4	(a)	(i) Pa	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 -	1980 NE to high pop density / urban / SE / Rio / Sao Paulo area 1980 NE to Brasilia 1980 high pop density / urban / SE / Rio / Sao Paulo area to Brasilia 1980 Minas Gerais to high pop density / urban / SE / Rio / Sao Paulo area 2010 surroundings to Manaus 2010 high pop density / urban / SE / Rio / Sao Paulo area to Amazonas 2010 high pop density / urban / SE / Rio / Sao Paulo area to Centre West region 2010 high pop density / urban / SE / Rio / Sao Paulo area to Parana e 1 for each time period	[4]
		1109010		[7]

[Max 8]

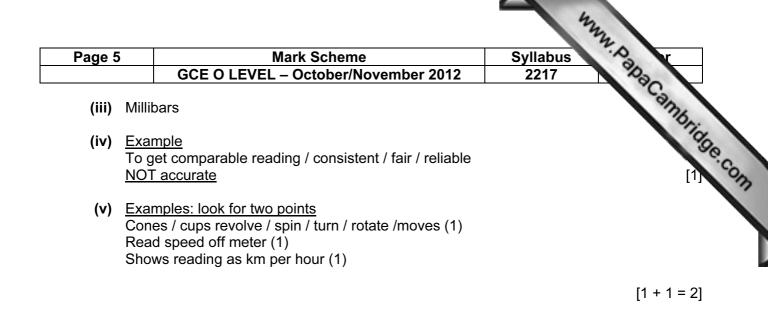
 (a) Bar at correct height for 2008 Bar at correct height for 2009 (b) (i) 27 - 28.5 (ii) 2.5 - 3.5 (c) All decreased except Italy stayed the same Rank order stays the same (d) Correct division of chart Correct key 	labus 217 Papacambrid [1] [2]
 (ii) 2.5 – 3.5 (c) All decreased except Italy stayed the same Rank order stays the same (d) Correct division of chart 	
 (c) All decreased except Italy stayed the same Rank order stays the same (d) Correct division of chart 	
except Italy stayed the sameRank order stays the same(d) Correct division of chart	[2]
(d) Correct division of chart	[2]
	[2]
	[Max 8]
(a) Correct triangle Accuracy within triangle	[2]
(b) Thailand South Africa	[2]
(c) Primary decreases Secondary increases later decreases	
Tertiary increases	[4]

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]

(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)
		Read value/pressure on dial (1) [1 + 1 =2]



- (c) (i) Plot on scatter graph 13th (<u>1016mb & 12 km per hr</u>) & 19th (<u>1017mb & 7 km per hr</u>) for Manama. <u>1 mark per plot</u>. [1 + 1 = 2]
 - (ii) Hypothesis is NOT TRUE / as AP increases wind speed does not decrease -

<u>Accept</u> As AP increases, wind speed does slightly / positive relationship (1) <u>OR</u> No relationship between AP and wind speed (1)

Data evidence:

e.g. at 1019mb speed is 13 km/hr but at 1010mb speed is 6 km/hour (1 max) e.g. at same AP wind speeds have large extremes (1) at 1016mb there are 4 different speeds /range 3-12 km/hour (1 max) (ALSO ok if use 1012mb/1019 lines) e,g. at same wind speed AP has large extremes (1) at 4km/hr AP ranges from 1012mb to 1019mb (1 max) (ALSO ok if use 7 km/hr line) [1HA + 3 = 4]

(d) (i) <u>Primary data</u>: using a rain gauge & measuring the speed of river flow (1) <u>Secondary data</u>: researching on the internet & reading a newspaper report (1)

Mark as 1 correct = 0, 2 or 3 correct = 1, all 4 correct = 2.

- (ii) Plot 2 bars for 18^{th} in Manama: July= 999 mb, Jan = 1016 mb [1 + 1 = 2]
- (iii) Hypothesis is TRUE

AP has larger differences in Manama / lower differences in Jakarta (1)

Credit data up to 3 max with reserve of 2 marksIn Manama AP varies between 16-23 mb between Jan & July (1) or raw figures (1)In Jakarta AP varies between 1-3 mb between Jan & July (1) or raw figures (1)Can compare individual data on any datese.g. on 11th January 1018mb at Manama but 11th July 997mb (1)on 11th January 1012mb at Jakarta and on 11th July 1011mb (1)

Page 6			us & r
		GCE O LEVEL – October/November 2012 221	7 200
(a)	Twe	o examples required. Looking for weaknesses (Can be improvemer	bus 7 hts) hts)
(6)		y not have carried out pilot study (1)	1(5)
	-	ta only collected for 10 day periods (1)	1
		ese days may not be typical conditions (1)	
		a collection only done twice a year (1)	•
		w accurate were readings /student errors (1)	1 / 4 \
		able to check the results from other school / confidence in other sch	1001 (1)
		ne zone/communication/language difficulties/issues (1) puld have taken more than just 1 reading (1)	[1 + 1 = 2]
	0110		L···
(f)	Idea	as such as:	
(י)		edit for 1 max an acceptable hypothesis regarding temperature (1)	
		there another (1)	
		e thermometer (1) ere thermometer is located e.g. in the shade / Stevenson screen (1)
		tails of readings taken e.g. maximum, minimum temperatures (1)	/
		en readings are made (1)	
	Hov	w readings are recorded (1)	[1 + 1 + 1 + 1 = 4]
<i>·</i> 、	<i>.</i>		· ·
(a)	(i)	Only two answers possible; do NOT credit examples of type or init	<u>ials</u> .
		1. Hardware.	
		2. Professional service.	[1 + 1 = 2]
	(ii)	Examples	
	()	To simplify the map / easier to read / understand / analyse/ can co	ompare (1)
		To group <u>similar</u> shops / services together (1)	
		To show a pattern of shops / services on the map (1)	[4 + 4 - 0]
		Easier to carry out fieldwork (1)	[1 + 1 = 2]
((iii)	Examples	
		Around/near the market area (1)	
		In the market (1) South and east of market (1)	
		Away from or west of the main road (1)	
		NW of cemetery (1)	[1]
((iv)	Examples	
``	147	Along the main road (1)	
		To the east of the CBD (1)	
		On the edge of the central area/CBD / out of town (1)	
		Close to the bus station (1)	
		Close to petrol station (1)	[4
		To east of market (1)	[1]
	(v)	Examples	
		W & G located where customers can walk to these shops frequent	
		Supermarkets are located for travelling shoppers / access for peol	
		Supermarket customers may use vehicles so need space for park lorries delivering goods (1)	ing / ior access ior
		Smail shops/stores can allord rent in centre (1)	
		Small shops/stores can afford rent in centre (1) Supermarkets need more space / where land is cheaper (1)	

Page 7		Syllabus Syllabus
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(vi)	Evidence does SUPPORT Hypothesis 1 / it is TRUE / near to market –	commercial centre is
	Shops surround market area / on three roads (1) High density of small shops in centre (1) Different types of shops and services in centre (1) Offices/professional services in centre (1) Government offices in centre (1) Bus station in centre (1)	Syllabus 2217 commercial centre is [1HA + 2 = 3]
b) (i)	Examples Results will not be affected / distorted by people going /rush hour traffic (1) 10 minutes is long enough to get valid results / not too Working days will give typical pattern of movement in Repeating the survey on two days to get an average /	o long to get bored (1) week rather than weekend (1)
(ii)	Completion of survey sheet – tally and total for bicycle = 18 <u>1 mark for total of 18</u>	es & mopeds
		[1 + 1 = 2]
(c) (i)	<u>Completion of 100 pedestrian isoline which must go</u> : Inside 97 and between 110 and 93 on right (1) Outside 102 and between 110 and 84 on left (1)	[1 + 1 = 2]
		[1+1-2]
(ii)	Shading of area over 100 vehicles.	[1]
(iii)	Examples Would separate out two groups of vehicles (1) Would show when people went to different areas on d Would show where 2/3 wheeled vehicles went compar (1)	
(iv)	Hypothesis is TRUE / pedestrian flows are highest in a are lowest – 1 mark	commercial centre / vehicle flows
	Pedestrian flows are over 150 in commercial centre (1 Vehicle flows are between 25 – 50 in commercial cent	

	3	Mark Scheme	Syllabus r
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(v)	<u>NOT</u>	E 1 reserve mark for Pedestrian flow and 1 reserve	Syllabus 2217 e mark for Vehicle flow
	<u>Exar</u>	nples:	
	Pede	<u>estrian flows</u> are highest in area of market <u>becaus</u> e:	:
	Peop Man Likel	ble walk to buy food/ household/convenience goods ble come from nearby housing areas (1) y people may not own vehicles / don't need vehicles y to be more work in centre (1) ker to get round shops than with vehicle (1)	s/go to shop (1)
	<u>Vehi</u>	<u>cle flows</u> are highest along main road <u>because</u> :	
		ble travelling between other settlements/ through tra ble go to supermarkets to buy in bulk (1)	affic /commuting (1)
		cles lowest in centre because of narrow roads/lack	of parking space (1)

(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]