

**CAMBRIDGE INTERNATIONAL EXAMINATIONS**

GCE Ordinary Level

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## **MARK SCHEME for the October/November 2012 series**

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

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- 1 (a) (i) 8078
- (ii) Golf Course  
Rifle Range
- b) (i) Dip Tank  
Dam  
Hut  
Cultivation  
Reservoir [5]
- (ii) Accurate in relation to the edge of the grid  
Accurate in relation to the hut [2]
- (c) (i) 805757 or 805757 [1]
- (ii) West and east [1]
- (d) Mine name / Xmas  
Quarry and / or excavation [2]
- (e) 8.5 - 9(km)  
Addition of 6km [2]
- (f) Highland  
Peak at 1468.5m  
Gentle slopes in N and W }  
Steep slopes in S and E } or comparative for 1 mark  
Valleys  
Radial drainage  
Tributaries  
(Reserve 1 mark for drainage) [4]
- [Total: 20]
- 2 (a) (i) Prevailing wind is onshore  
Beach is made of sand [2]
- (ii) Water table is at the surface [1]
- (b) (i) Grass / marram [1]
- (ii) Ground cover increases  
Shelter increases  
Salinity decreases [3]

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- (iii) Further from sea has less salt input from spray  
Rainwater washes salt away and not replaced

[Total: ]

- 3 (a) (i) Erupting at the present time  
Recently erupted and likely to do again [1]
- (ii) Height reduced  
Top widened / flattened / sunk in / caldera / large crater [2]
- (b) (i) Destroys houses  
Destroys roads  
New land is created [2]
- (ii) Narrower  
Faster [2]
- (iii) 461.5 / 460 [1]

[Total: 8]

- 4 (a) High / hilly / mountains  
Bare rock / peaks  
Snow / ice  
Steep slopes  
Forested / Coniferous trees  
Grass  
Valley  
V-shaped  
Interlocking spurs [5]
- (b) Valley  
Routeway  
Flatter land / terrace  
Lower land  
Building materials  
Grazing land [3]

[Total: 8]

- 5 (a) (i) Diagonal shading on Australia [1]
- (ii) No one has measured the value  
Too hard to collect an overall value [1]

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- (b) 3 countries in Asia / China / India / Japan  
 1 country in Europe / France  
 1 country in South America / Brazil  
 1 country in North America / USA  
 No countries in Africa / Australasia [3]

- (c) Areas of different climate / rainfall / temperature  
 Population size of different areas  
 Areas of infertile soils [3]

**[Total: 8]**

- 6 (a) Correct height of bar  
 Correct shading [2]

- (b) (i) 2520 [1]

- (ii) Philippines, Indonesia, Japan, New Zealand. [1]

- (c) Mexico [1]

- (d) (i) Correct division  
 Correct shading [2]

- (ii) Plate boundaries  
 Ring of fire  
 Molten material near surface [1]

**[Total: 8]**

- 7 (a) (i) Clear of buildings / away from shelter / open ground  
 Clear of trees / away from interception  
 Clear of people or animals / away from interference  
 On grass not concrete / non-splash surface  
 On flat land 2 @ 1 [2]

- (ii) Container stood firmly in ground / above ground / on ground  
 Rainfall / water collects in measuring cylinder / rains into cylinder  
 Read water level in measuring cylinder / read at eye level / read off the scale / read off the gauge  
 Reading taken at same time every day / specific time period  
 Empty water out of container  
 Add any water collected in overflow cylinder [3]

- (iii) On the top of a building  
 Away from obstruction / exposed to wind 2 @ 1 [2]

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- (iv) Arrow turns / spins in the wind  
 The arrow points the direction the wind is coming from  
 The letters show direction / reference to compass direction
- (b) (i) 4.8 (mm) [1]
- (ii) Primary data: using a barometer & measuring the speed of river flow  
 Secondary data: researching on the internet & reading a newspaper report  
 4 correct = 2 marks, 2 or 3 correct = 1 mark, 1 correct = 0 [2]
- (iii) Measurements made at same time of day  
 No measurements are missing / all the days / everyday  
 Measurements done with accurate or advanced instruments / recorded automatically or by computer  
 Experienced or professional people / student error  
 Answer could focus on weaknesses of student measuring 2 @ 1 [2]
- (iv) Plot 2mm at coastguard station at day 2 [1]
- (v) Average rainfall is higher at coastguard station / lower at school  
 Paired data for 2 marks  
 e.g. average daily rainfall 4.8 mm at school, 6.1 mm at coastguard station  
 e.g. days with 8 mm rainfall or more (2/10 at school, 6/16 at coastguard station)  
 e.g. up to 15 mm on one day at CG station, up to 12 mm in one day at school  
 No Hypothesis mark [3]
- (c) (i) Plot wind bars: SW = 4 [1]
- (ii) Plot rainfall bar: 1 mark for scales (up to 5mm & 15<sup>th</sup>);  
 1 mark for bar = 4 mm;  
 1 mark for position in SE quadrant [3]
- (iii) School: Hypothesis is not true / incorrect – 1 mark reserve  
 More rain on days when wind is from N/NW  
 If answer is Hypothesis is true / partially true = 0  
 Rainfall is more than 5mm when wind is from N/NW & rainfall is 5mm or below when wind is from S/SW  
 There is more total rainfall when the wind is from N/NW (26 mm) than when the wind is from S/SW (20 mm)
- Coastguard station: hypothesis is true / correct / more rain on days when wind is from S/SW – 1 mark reserve  
 If answer is Hypothesis is not true / partially true = 0  
 Rainfall is more than 5mm when wind is from S/SW & rainfall is 5mm or below when wind is from N/NW / NE / SE  
 There is more total rainfall when the wind is from S/SW (76 mm) than when the wind is from N/NW / NE / SE (22 mm)
- 1 mark for each hypothesis; 2 marks for supporting evidence [4]

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- (d) Direction of wind varies from day to day  
 More rain when winds blow from the sea  
 More winds from sea / south affect coastguard station  
 School is sheltered from winds off the sea or from south by hills / rainshadow
- School gets more rain when winds are from north  
 Coastguard station is sheltered from north winds by hills / rainshadow
- 1 mark maximum for comparative location such as:  
 CG station is nearer sea or CG station on coast & school inland  
 CG station is at sea level & school is 200m above SL or school is higher [3]

[Total: 30]

- 8 (a) (i) Look at what was for sale in the shops  
 Language of shop signs / products  
 Customers' language  
 Ask / survey / questionnaire shop owners  
 Ask / survey / questionnaire customers  
 Appearance e.g. dress 3 @ 1 [3]
- (ii) To test methodology / find out if any problems / check sample size  
 Opportunity to change methodology / make improvements  
 Gain confidence in doing fieldwork / practice / gain experience 2 @ 1 [2]
- (iii) Draw divided bar to show nine tourist & six local shops  
 1 mark for dividing line, 1 mark for shading  
  
 If numbers are 'wrong way round' credit correct shading [2]
- (iv)  $\frac{3}{11} \times 100 = 27.3\%$  (27.27)  
 11  
 1 mark for calculation, 1 mark for answer  
 No need for percentage [2]
- (v) Rank order: site 6 = rank 2  
 site 7 = rank 4  
 site 8 = rank 5  
 site 9 = rank 3  
 site 10 = rank 11
- (b) (i) Total environmental score = 14 [1]
- (ii) Subjective / biased judgements / Surveys done by different people get different results  
 Survey will be done at different times / different days 2 @ 1
- (iii) Plot sites 4 (tourist shops = 50%, environmental score = 16)  
 and 7 (tourist shops = 66.7%, environmental score = 23) on scatter graph 2 @ 1 [2]
- (iv) Plot best fit line on scatter graph (curved or straight)  
 Positive with 3 plots clear of line on each side [1]

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- (v) Graph shows a positive correlation / relationship between percentage of tourists and environmental score  
As percentage of tourist shops increases so does environmental score  
No Hypothesis mark
- (vi) Environment of an area is improved to attract more tourists / to maintain level of tourism or examples of how area is kept clean  
Poor environment will put off tourists / prevent them coming  
Tourist industry income can be used to improve environment [2]
- (c) (i) Methodology such as: one person every two minutes / every tenth person / male – female – male / ask people at equal intervals [1]
- (ii) Complete pie graph – division and shading for 1 mark [1]
- (iii) Complete tally chart – all correct = 2 marks  
3 or 4 correct = 1 mark [2]
- (iv) Hypothesis is true / correct / partially true / tourism does have a positive economic effect – 1 mark reserve  
If answer Hypothesis is not true = 0  
At 8/10 / most / majority sites more than 50% / most / majority answered Yes (to question 2)  
Exceptions are sites 1 & 2  
At two sites / at site 6 / at site 10 all residents answered Yes (to question 2)  
  
Credit effects from Fig. 12 with supporting data (number or site) to 1 mark maximum  
e.g. Most sites have more than 5 tallies for job opportunities  
At site 10 15/20 said more job opportunities [4]
- (d) Less unemployment  
Jobs such as guides, vendors, hotel staff, security staff / job opportunities in hotels, shops  
Jobs are reliable & give local people more income / earn money  
Can buy necessities / luxuries or examples  
Can pay for education / health care / electricity / water supply / electricity [3]

[Total: 30]