MARK SCHEME for the October/November 2012 series

2217 GEOGRAPHY

2217/23   Paper 2 (Investigation and Skills), maximum raw mark 90

1 (a) (i) 8078 [1]

(ii) Golf Course
Rifle Range [2]

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]

    (iii) Further from sea has less salt input from spray
         Rainwater washes salt away and not replaced   [1]

                                                           [Total: 8]

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]

(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]

   (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 [3]

(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 & 15th);
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]

(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)
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]

(v) Graph shows a positive correlation / relationship between percentage of tourist shops and environmental score

As percentage of tourist shops increases so does environmental score

No Hypothesis mark [1]

(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]

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