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.

Cambridge is publishing the mark schemes for the October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

| Page 2 | | Mark Scheme | | | Syllabus | Syllabus Syllabus | |
|-------------|--|---|--|-----------------------------------|----------------------|------------------------|--|
| | | GCE O | LEVEL – Octob | er/November 2013 | 2217 | 102 | |
| (a) | Location | | Six-Figure Grid Reference | Direction from Cumberland Hill | Distance Cumberla | from and Hill (n | |
| | Fire Stati | on | 580816 | SW | 1950 | 3 | |
| | (St Ann's |) Hospital | 631811 | SE | 3900 | | |
| | Junction class roa Maraval | | 626838 | NE | 3200-330 | | |
| (b) | Belmont | higher den flatter / St | n's more irregular sity / St Ann's low Ann's more slopir | ver density | | | |
| | Belmont | built up / S | t Ann's more ope | n space / forest / scru | ıb / gardens | [2] | |
| (c) | (i) 6278 | | | | | [1] | |
| | The Built Isola | oval – gras round Jac ted buildin | spaced in centre ssland with buildir kson / Siegert Sq gs in grassland a s mainly in south | ngs round uare / open space | | [4] | |
| (d) | Sports gr Golf Cour Country (Commun Hotel Film City Camp Og Rock Gar | rse Club ity Centre gden | | | | [3] | |
| (e) | | | Grid Square 5880 | Grid Square 6078 | Both of these areas | Neither of these areas | |
| | Example wharf cliff hotel jetty lighthous | | ✓ ✓ | ✓ • | | √ √ | |

| Pa | ge 3 | Mark Scheme S | Syllabus r |
|-----|----------------------------------|--|---|
| | | GCE O LEVEL – October/November 2013 | 2217 23 |
| (a) | (i) | Russia | amb. |
| | (ii) | China | 110 |
| | (iii) | USA | Syllabus 2217 Internet of the comparison of the |
| | (iv) | Brazil and Australia | [1] |
| (b) | (i) | Correct completion of graph | [1] |
| | (ii) | 34 million | [1] |
| (c) | (i) | Scattergraph | [1] |
| | (ii) | No relationship | [1] |
| | | | [Total: 8] |
| | Sor Ligi | nage me upper levels / different heights ht / dull coloured / some unpainted nnected to electric | [4] |
| (b) | Sm Line Cer Sep Stre | mac v concrete / dirt ooth v uneven es v no lines ntral area / dual carriageway / lanes / two way v one lane / one parate pedestrian path v pedestrians in the road eet lighting v no street lighting ninage v no drainage | e way |
| | | der road in A | [4] |
| | | | [Total: 8] |
| (a) | (i) | Spit | [1] |
| | (ii) | Most common wind direction Most likely wind direction | |
| | | Direction wind blows most often | [1] |
| | (iii) | Arrow to the north | [1] |
| | | | |

| Page 4 | | 4 | Mark Scheme Syllabus | |
|--------|---------------------------------------|--|---|------------|
| | | | GCE O LEVEL – October/November 2013 2217 | 200 |
| (b) | (i) | M M O D L u D T T L | Soft ground / unstable land / not strong land May flood Mosquitoes / insects / diseases from marsh .ack of shelter Vind blown sand Over ½km from village / road Damage to salt marsh Damage to sand dunes .oss of species Disturbance of vegetation sucession Too much traffic in village Too much noise in village .itter in village | Cambrid |
| | (ii) | | rade for shop / pub Employment opportunities | [1] |
| | | | | [Total: 8] |
| (a) | (i) | н | lonshu | [1] |
| | (ii) |) Т | o NW | [1] |
| (b) | 40 | 00—5 | 525 km | [1] |
| (c) | (i) | C | Correct labels on Fig. 5 | [4] |
| | (ii) | D | Destructive boundary | [1] |
| | | | | [Total: 8] |
| (a) | (a) Increasin +0.25°C Increasin | | 5°C | |
| | |).4°(| | [4] |
| (b) | (i) | С | Raised sea level Change in ocean temperature Change in fish distribution | [2] |
| | (ii) | | Through changes to weather patterns | [1] |
| | (iii) | | Some temperate areas will have temperatures previously only found in tropics ncreased flooding gives more areas for mosquitoes to breed | [1] |
| | | | | [Total: 8] |

| Page 5 | Mark Scheme Syllabus | · A |
|---------|--|-------------------|
| | GCE O LEVEL – October/November 2013 2217 | Non I |
| | Section B | IN Papa Cambrida |
| (a) (i) | Evennlee | 110 |
| | Examples Accessibility/reachable/easy to get to/is it private land (1) | |
| | Distance from source/between sites (1) | |
| | Away from human impact/buildings/houses (1) | |
| | | |
| | Velocity/fast flowing/strength of current (1) Safety ref wild/dangerous animals (1) | |
| | Not near waterfalls/rapids (1) | [3 × 1 = 3] |
| (ii) | To ensure consistency/fairness of results (1) | |
| | Velocity/depth/width/river conditions may change (1) | |
| | Weather/rainfall might change/on same day should stay the same (1) | [1] |
| (iii) | Examples | |
| . , | Agree methodology on what measurements to take (1) | |
| | Find out what does not work/change it/reduce errors (1) | |
| | Practise fieldwork techniques/get experience/get idea what to do (1) Test/learn how to use equipment (1) | |
| | Experience of working as a team (1) | |
| | Find out how long it would take (1) | [2 × 1 = 2] |
| | | - |
| | Answers to focus on the diagram. | |
| | Poles/sticks put on each bank of the river (1) | |
| | String/ropes stretched between the poles/sticks <u>across the river</u> (1) | |
| | Measure a fixed/given distance along river/measure 10m (1) Students at each end of the fixed distance (1) | |
| | Float/floating object put in the river (1) | |
| | Measure time float takes to travel distance (1) | |
| | Repeat across river/in 3 channels (1) | [3 × 1 = 3] |
| • • | Put flow meter below surface of river/submerge it (1) | |
| | Propeller must be facing upstream (1) | |
| | Hold in water for sensible/specified time (1) Record reading/read the meter (1) | |
| | Take several readings (1) | |
| | Calculate average (1) | [3 × 1 = 3] |
| (iii) | Completion of line graph sites 4 (7.8 and 0.60) & 5 (10.5 and 0.78) | |
| | 1 mark for each correct plot = 2 marks; no marks for lines. | |
| | No need to put 4 and 5 by plots | [1 + 1 = 2] |
| • • | Hypothesis is TRUE | |
| | Overall velocity increases 0.36 to 0.78 so does distance from source 1.8 t | • • |
| | Overall velocity increases 0.36 to 0.78 as distance increases from Site 1– No mark for ref to anomaly at 4; answer must support True judgement. | 5 (1) |
| | | |
| | OR <u>Hypothesis</u> <u>PARTLY TRUE</u> Because of an anomaly at Site 4 where velocity decreases (1) | |
| | Because from Site 3 to Site 4 velocity drops/reduces (1) OR from (| 0.62 to 0.6 (1) |

| Page 6 | Mark Scheme Syllabus |
|--|---|
| | GCE O LEVEL – October/November 2013 2217 |
| :) (i) | 1 mark each for one piece of relevant equipment and 1 mark each for method mark even if equipment not allowed. |
| | Mark Scheme Syllabus GCE O LEVEL – October/November 2013 2217 1 mark each for one piece of relevant equipment and 1 mark each for methomeasurements. Can get method mark even if equipment not allowed. Width of channel: Equipment: tape measure/tape/metre rule (1 Reserve) How: Stretch tape measure across river (1) |
| | <u>How:</u> Stretch tape measure across river (1) Stretch rope across river then measure it (1) |
| | Depth of river: <u>Equipment</u> : ruler/measuring stick/string & stone/ranging pole/stick & ruler (1 Reserve) |
| | <u>How:</u> Measure depth at intervals (1) Rest ruler upright (1) Must touch river bed (1) |
| | Measure up to where the water is wet (1) $[2 \times (1R + 1) = 4]$ |
| (ii) | 0.22 |
| (iii) | 2.54 (Accept 2.542) [|
| (iv) | Examples River is deep (1) Fast-flowing/strong current (1) Current may pull tape downstream (1) Tape may not be long enough (1) Dangerous with a reason not already credited above (1 max) [1 + 1 = 2 |
| d) (i) | Plot site 5 on scatter graph (0.78 Av Vel/0.50 HR). (No need for 5) |
| (ii) | <u>Need two pieces of evidence (No need for units)</u> Velocity increases from 0.36 to 0.78 and Hydraulic radius increases (1) from 0.05 0.5/from Site 1–5 (1) |
| | Hydraulic radius increases from 0.05 to 0.5 and velocity increases (1) from 0.36 0.78 /from site 1–5 (1). |
| | Can use any two sites that support the hypothesis [1 + 1 = 2 |
| Cou Mea Ske Anr Pho Des | amples of different recording techniques for the VALLEY uld be across the valley or down the long profile. asure/look at cross-profile/slopes/gradient/width of valley(s) (1) etches of five sites (1) notations/labels on sketch/drawings (1) otographs of five sites (1) scribe changes/differences in vegetation in the valley (1) scribe changes/differences in human impact on the valley (1) |
| <u>Cre</u> | dit up to 3 marks if elaborate on 1 technique $[(3 \times 1) \text{ or } (1 \times 2) + 1]$ or $[1 + 1 + 1 = 3]$ |
| | |

| | 7 | | abus | |
|---|---|--|-------------------------|--|
| | | GCE O LEVEL – October/November 2013 22 | 217 23 | |
| Hi Pr Hu Va Na Co Lir | Examples Historic growth from centre outwards/planning policy (1) Physical features with e.g. river valley/flat land/coasts. (1) Human features with e.g. railways/roads/accessibility (1) Value of land/price/cost (1) Natural resources with e.g. coal/minerals (1) Conflicting land uses with e.g. housing away from industry (1) Linked land-uses with e.g. low-cost housing close to workplaces/High-class residential away from centre/CBD as was more space | | | |
| (b) (i) | Tall/ Foci Car Ban Larg Ped Hist Pub Hote Air/r | <u>mples</u> /multi-storey buildings/high land values (1) us of roads/railways/bus stations/railway stations/accessible parks (1) ks/offices (1) ge shops/department stores/chain stores/shopping centres (lestrianised area/lots of pedestrians/crowded (1) oric/religious buildings (1) lic buildings/city hall/government buildings (1) els (1) noise pollution (1) fic congestion/rush hours/busy roads (1) ket place (1) | | |
| (ii) | Sys e.g. Ran e.g. | e mark for type; one for description tematic sample (1) every 100m/regular/equal/specific (1) dom sample (1) pick sites off a map/pick <u>any</u> site (1) random numbers/tables to select sites (1) | [1 + 1 = 2] | |
| (c) (i) | Offic Sho | idential = 6 ces = 2 ps = 2 2 correct = 1; 3 correct = 2 | [1 + 1 = 2] | |
| (ii) | Divi | npletion of divided bar graph: order 217 from left OR 217 fro ding lines = 1 mark (<u>To be annotated beneath the plots</u>) ding = 1 mark (<u>To be annotated by the key</u>) | om right [1 + 1 = 2] | |
| (iii) | Eas Map Give Quio Disa | ee: ple data to plot (1) ier to compare/analyse (1) o will be too cluttered with graphs (1) es a clear picture (1) cker/faster to present/draw/map/record/show (1) agree: es detail of different types of building (1) y be fairly even split of land use/hard to choose main use (1) | | |
| | | | | |

| GCE O LEVEL – October/November 2013 Credit 1 max for each of four different land-uses in key. | 2217 103 |
|---|---|
| Credit 1 max for each of four different land-uses in key. | S |
| | mb. |
| Residential areas are near waterfront/on edge of urban west/south/east/west (1) | - |
| | DCKS (1) |
| Industrial areas are near docks/close to motorway/along CBD (1) | g transect C/to south and east of [1 + 1 + 1 + 1 = 4] |
| Examples | |
| Easier/quicker to count number of storeys (1) | |
| | . (1) [4] |
| Can measure ground floor neight and multiply by storeys | s (1) [1] |
| Completion of sites 3 & 4 on transect C | |
| 10 Offices at 3; 4 Industry at 4. | |
| 1 mark for each bar correct with correct shading | [1 + 1 = 2] |
| Hypothesis is TRUE/CORRECT | |
| Evidence: | |
| More storeys/>10 storeys for offices OR more storeys/>4 | |
| | |
| more storeys in onices/shops than residential/industry (1 | (1) [1R + 1 + 1 = 3] |
| Examples | |
| | |
| buildings are higher where there is less space/relates to | space (1) [1R + 1 + 1 = 3] |
| Ground floor use is often different from upper floors C | OR example e.g. might get flats |
| above shops (1) | [1] |
| | west/south/east/west (1) <u>Office</u> area is in the centre of city/in or near CBD/near de <u>Shops</u> area is along transect B/south of CBD (1) <u>Industrial</u> areas are near docks/close to motorway/along CBD (1) <u>Examples</u> Easier/quicker to count number of storeys (1) Difficult to measure actual height of tall buildings (1) Can measure ground floor height and multiply by storeys <u>Completion of sites 3 & 4 on transect C</u> 10 Offices at 3; 4 Industry at 4. 1 mark for each bar correct with correct shading Hypothesis is TRUE/CORRECT <u>Evidence:</u> More storeys/>10 storeys for offices OR more storeys/>4 Fewer storeys/<3 storeys for residential OR less storeys More storeys in offices/shops than residential/industry (1 <u>Examples</u> Buildings are built higher where land values are high/rela Buildings are higher where there is less space/relates to Ground floor use is often different from upper floors (1) |

e.g. Choose different areas of city, e.g. industrial, residential, retail, open space (1) Carry out questionnaires (1) Interview people (1) Carry out bi-polar survey (1) Carry out bi-polar survey (1) Internet research must be qualified with a relevant aspect of the topic (1) [(1 + 3) or 2 × (1 + 1) = 4]

[Total: 30]