MARK SCHEME for the May/June 2007 question paper

2217 GEOGRAPHY

2217/02

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

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UNIVERSITY of CAMBRIDGE International Examinations

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|-----|--------|---|----------------------|------------|
| | | GCE O LEVEL – May/June 2007 | 2217 | 02 |
| | | Section A | | |
| (a) | 8599 | 30/1 | | I |
| (b) | 4.9 te | o 5.1 km / 4900 to 5100 m / 3 – 3.125 miles | | |
| (c) | Sout | ו West | | |
| (d) | Wate | r tank | | |
| (e) | (i) | sugar plantations/cultivation and other plantations/so tanks/water channels or water courses/gentle slope/ tracks (no need to specify cane) or road 3x1 | | |
| | (ii) | steep slopes/cliffs/gap or col or pass or gorge (accept around 250 m +or – 20/mostly scattered trees or scr sugar plantations in south/irrigation feeder channel | ub/power line/track | |
| (f) | (i) | Accept between 130 m and 148 m | | |
| | (ii) | valley or between mountains/fed by steams or water mountains/demand for water for irrigation or plantation local settlement or people 2x1 | | |
| | (iii) | Much of lake has become marsh or swamp/about has silt brought down by streams/length of embankment for current lake/2x1 Allow 1 for development e.g. ed edge of lake used to be. | is much longer that | n needed |
| | (iv) | irrigation channel (in 8894 or 9093)/water supply for station | olantations. Pipelin | e to power |
| (g) | throu | network of roads or tracks/buildings spread out or dis gh it/services mainly in NE of town/services close to r roads or tracks 3x1 | | |
| | | | | [Total: 2 |

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| | | | GCE O LEVEL – May/June 2007 | 2217 | 02 | |
| 2 | (a) | correctl Bounda | oundaries around South America have been left as dot y mark these boundaries. ary along western edge is destructive 1 ary in Atlantic to east is constructive 1 | ted lines. Use th | ne key to | [2] |
| | (b) | e.g. pas e.g. mo e.g. bou Max 3 f 1 mark 2 marks e.g. bou e.g. bou | per general point sses through oceans rather than land in most cases ore in southern oceans or more in southern part of map undary through Atlantic ocean or mid Atlantic ridge for general points for up to two specific examples of constructive boundars of three or more examples undary of South American Plate and African Plate undary of Antarctic Plate and Pacific Plate for specific examples | | | [3] |
| | (c) | OR Both typ OR Correla Weaker bounda Credit e E.g. no having e E.g. fev E.g. vol | reas of volcanic activity match up with/correlate/similar pes of boundary are associated with volcanic activity tion or close link or similar with destructive boundaries r link/less correlation or similar between volcanic activit aries exceptions to pattern volcanoes in Himalayas/central Asia/north of India/how destructive boundary v volcanoes in Southern Ocean, although constructive lcanic activity in Central Pacific although no boundary (other valid observations 4x1 | y and constructive vever described | ive despite | [4] |
| | (d) | to subd | aries represent weaknesses in earth's crust or moveme luction zones 1 lava or magma to escape or forms volcanoes or simila | | eference | [2] |

[Total: 11]

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- 3 (a) (i) cliff C Credit any steep slope facing the sea
 - (ii) wave cut platform P Credit any area beyond shoreline (except open water)
 - (iii) a place where weathering is taking place **W** Accept any point which is inland from beach and on slope
 - (iv) a place where wave erosion is active E Credit any point at foot of cliffs where wave action will take place Accept points on wave-cut platform
 - (b) Broken down by water/attrition/moved along coast/become beach/longshore drift/accept 'washed away'. [1]
 - (c) Waves reach base of cliff/waves more powerful at base of cliff Not 'waves more powerful at high tide'.
 - (d) Reference to hardness of rock and resistance to erosion or collapse/credit for angle of strata/constructive waves have built up material which protects cliff/weathering of cliff has led to build of material which protects cliff (but not if weathering confused with erosion)/wide platform also protects cliff from full force of waves. 2 x 1 Max 1 mark for mentioning hardness or angle or deposition or platform but not saying why or how this affects steepness.

[Total: 8]

[4]

[1]

[2]

| | Paç | ge 5 | | Mark Scheme | Syllabus | Paper |
|-----|-----|-------|---|--|---|---------------|
| | | | | GCE O LEVEL – May/June 2007 | 2217 | 02 |
| 4 | (a) | (i) | Brazil | 1.6% to 2.5% | | [1] |
| | | (ii) | Tanzania | 2.6 to 3.5% | | [1] |
| | (b) | 1 ma | ark for each | correctly shaded country. | | [2] |
| (c) | | (i) | e.g. mainl | r general point y to north of or away from equator ern or SE parts of South America of Asia | | |
| | | | e.g. North | r specific area or country America/Europe/Russia/Japan/Australia naming specific countries or areas name | | [4] |
| | | (ii) | Children I need for la Pensions for large f Women c Availabilit 1 mark pe | EDC countries which can be expressed in ve longer/better health care if qualified e arge families and other provision for old age/fewer per amilies for economic/insurance purposes areer minded and so delay having childred y (or knowledge of) of birth control or cor r point for suggested explanation | e.g. reduces infant mo ople work on land so l s en | less need |
| | | | • | o 2 development marks hildbirth means lower fertility rates | | [4] |
| | | | | | | [Total: 12] |
| 5 | (a) | | e, July, Aug our needed | ust, September for mark | | [1] |
| | (b) | 8 ma | onths | | | [1] |
| | (c) | 'high | | son or monsoon starts/rice needs heat a re' is not enough on its own. Reference r ar. 2x1 | | |
| | (d) | | • | low for rice growing/maybe a shortage o (however expressed) | f water/little rain falls | during [2] |
| | (e) | | | ark if mention <u>more than one</u> function (pla or similar/sunlight/accept soil (but not ju | | esting)/ [3] |
| | | | | | | [Total: 9] |

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Section B

| 6 | (a) | Reas save costs can a Alter | cts: taller/higher buildings/narrower buildings sons; greater competition for land es space/conserves land s more to build wider/less to build narrower afford it (must be reasoned) matively, lower price of land means lower buildings; e space available so wider buildings | 3 @ 1 mark Credit dev Res 1 mark for effect | [3] |
|---|-----|---|--|--|-----|
| | (b) | to er to fin to sa | nake sure there was a change in buildings nsure that appropriate/correct/right areas were studied ad information about the town ave time later ake the investigation more representative | 2 @ 1 mark | [2] |
| | (c) | (i) | Correct plotting of Site C i.e. 4mm x 14mm and Site F i.e. 2mm x 16mm Presentation/sensible location/shading/orientation | 1 mark per bar. 1 mark location | [3] |
| | | (ii) | e.g. The narrowest buildings are close to the sea the tallest buildings are along the main road the lower buildings tend to be at the edges of the town the largest buildings are in the centre of the town Spatial patterns referring to minor roads or distance from the sea etc. are also valid. Credit use of site or numbers as evidence to max 1 Credit anomalies e.g. G is equally tall but by the coast | 3 @ 1 mark Res 1 mark for data or anomaly | [3] |
| | | | No credit for wider on main road, as not a clear pattern. | | |
| | (d) | (i) | More easily see the function; simpler data collection method; save time; every building has a ground floor; simple method | 1 @ 1 mark | [1] |
| | | (ii) | Correct BANK/DEPARTMENT STORES/MAIN POST OFFICE/ TOURIST OFFICE If general stores or housing then max 1 or 0 | 2 marks for 2 1 mark for 1 | [2] |
| | | (iii) | B ticked on script | 1 @ 1 mark | [1] |
| | | (iv) | Comparisons such as: Site A is commercial but Site E is tourist dominated Site A has an even division of functions but Site E is dominated by hotels Site A has a small number/one of hotels but site E has over half/six hotels Needs mention of Site A and E or comparative word. No explanation required. No credit for lists. | 3 @ 1 mark Credit dev of both site A and site E (inc data) | |

| Pa | ge 7 | Mark Scheme | Syllabus | Paper | |
|-------|---|---|--|---|-----|
| | | GCE O LEVEL – May/June 2007 | 2217 | 02 | |
| (e) | selec differ coun set ti cars/ | s such as: ction of site/junction of roads rent students at different sites/locations t cars/pedestrians passing a point mes/synchronise/10 minutes/5 minutes /pedestrians/different directions recorded/tally weather c at at different time (not place) | | @ 1 mark | [3] |
| (f) | (i) | Correct drawing of isoline US\$50; through the US\$50 a | at Site C 2 | 2 @ 1 mark | |
| | (ii) | Correct shading of area over US\$60 | 1 | @ 1 mark | [1] |
| (g) | -The hypothesis is correct/supported/partly supported -The centre of the town is at Sites A/B/E/along the main road The building height generally increases towards the centre of the town e.g. Site A three storeys; but Site G is also a high building; buildings are generally wider towards the centre of the town e.g. Site A 12 paces; the value of the land is higher along the main road and lower towards the sea in the south and the railway in the north e.g. above US\$60 in the centre but below US\$30 at the edge Max 3 if no data. | | I F f the town 1 uildings are d paces; the F vards the 1 60 in the IC | 6 @ 1 mark Reserve 1 mark for decision and Reserve 1 mark for location Credit data in support | |
| 7 (a) | (i) | Correct labelling of wave height, wave length, swash a backwash. Four correct for 2 marks, three correct for 1 mark | nd 2 | 2 @ 1 mark | [2] |
| | (ii) | A destructive wave is where the backwash is stronger swash/which removes material from the beach/erodes | han the 1 | @ 1 mark | [1] |
| (b) | (i) | Regular/organised/orderly sampling there is no student bias/choice in the site location/faired representative area is covered; easier to compare; easier/faster/quick | ; more | @ 1 mark | [3] |
| | (ii) | Labels on the photo to identify other beach material, disize; seaweed; more shell material; litter; other material | • | @ 1 mark | [3] |
| (c) | (i) | Correct drawing of 57%, 20%, 6% and 17% segments i.e. lines at 57%, 77%, and 83% Correct use of the key, but order unimportant | 3 | @ 1 mark | [3] |
| | (ii) | e.g. Site 1 is mainly sand and shingle (small material), Site 12 has much larger material of small pebbles and Credit any comparisons but not lists. | | : @ 1 mark | [2] |
| | (iii) | The original ideas were correct/material was larger at t the beach. Data/photo evidence to support this idea | he back of 3 | @ 1 mark | [3] |

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| | | | GCE O LEVEL – May/June 2007 | 2217 | | 02 | |
| (d) | The waves; from passing ships; the residents; tourists; washed down by river; wind; cliffs; sewage system/hotel; animals/birds | | | | 3 @ |) 1 mark | [3] |
| (e) | e.g. Students should walk along the beach 20 paces record number of paces/location on sheet observe/check the area decide/score/grade/tick/record/classify the other material at each site show understanding of the system total the scores for each site repeat every 20 paces | | Re: for |) 1 mark s 1 mark score/ de idea | [3] | | |
| | | eith The the aw Ex ma | scription: e.g. The quality and amount of beach litter in her side of the beach e least amount of other beach material is at sites in the beach ay from W debris decreases; towards E debris increas planation: The wind and waves (two points developed iterial and these may get caught at the edges of the be hotel in the centre of the beach cleans the beach close tel | e centre of ses remove each | Re: des | 1 mark s 1 mark s and 1 rk exp | [4] |
| (f) | e.g. The transect should be repeated at different times the transect should be repeated at different parts of the beach easy method to produce unbiased results the paces vary between different students student error sieving is quantitative not descriptive bi-polar is subjective size of photo/quadrat is small (implying not representative) etc. | | 3 @ | 1 mark | [3] | | |