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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the May/June 2007 question paper

2217 GEOGRAPHY

2217/01

Paper 1 (Geographical Themes), maximum raw mark 75

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.

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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The features of the mark scheme

Each question carries 25 marks. Candidates cannot earn above the maximum marks available each sub section.

The mark scheme attempts to give guidance about the requirements of each answer and lists a number of responses which will earn marks along with the general principles to be applied when marking each question.

It should be noted that candidates can earn marks if their answers are phrased differently provided they convey the same meaning as those in the mark scheme. THE CANDIDATES DO NOT NEED TO USE THE SAME WORDING TO EARN MARKS.

The notation 'etc' at the end of an answer in the mark scheme signifies that there may well be other correct responses or examples that can be given credit. Providing the statement is true, relevant to the question asked and not repetition of a previous point made, credit should be given.

A point made within one sub-section which is an answer to the question set in a different sub-section should not be given credit as each sub-section asks different questions which require independent answers.

The mark scheme uses semi colons to separate marks and diagonals to separate alternative answers.

During co-ordination the mark scheme is modified to add points agreed after discussion or to delete any points not allowed.

Marking mechanics

Point marking is used for sections (a) and (b) of each question, although marks are available in specified questions for development of appropriate points. Ticks should be used to clearly indicate the wording on a script where a mark has been allowed. Where a development point has been allowed the letter 'D' should be placed adjacent to the tick. The number of ticks should always be equal to the total number of marks awarded, the mark for each sub-section should be added up and placed in the margin at the end of the sub-section. The total mark for the entire question should be added and transferred to the front of the script.

Where a candidate makes a point which is not quite sufficient for credit an upturned 'V' insert symbol should be used. If after careful consideration a mark is awarded which gives 'benefit of doubt' to the candidate the letter 'J' should be placed adjacent to the tick (i.e. the candidate has 'just' achieved the mark).

Levels of response marking is used for section **(c)** of each question. Thus it is the quality of the response which determines which level an answer is achieved rather than the quantity of statements contained within it. However, once assigned to a level, the mark achieved within that level is determined by the number of points made.

Levels 1 and 2 are distinguished by whether statements are simple (Level 1) or developed/elaborated (Level 2). A candidate can immediately enter L2 by making developed points without making any L1 statements. In order to achieve L3 a candidate must have already reached the top end of L2 – in addition his/her answer should have a clear example (for 6 marks), and if the answer is place specific as well (7 marks).

Where statements are assigned levels by the examiner this should be indicated by the use of L1, L2 and L3 next to the statements. A summary of the overall level and mark awarded should be written at the end of the answer. Ticks should not be used on answers which are marked using levels of response marking.

Summary

Level 1 (1-4 marks):

- 1 simple statement (1 mark)
- 2 simple statements (2 marks)
- 3 simple statements (3 marks)
- 4 or more simple statements (4 marks)

Level 2 (3-5 marks):

- 1 developed statement (3 marks)
- 2 developed statements or 1 developed statement + 2 or more simple statements (4 marks)
- 3 or more developed statements (5 marks)

Level 3 (6 or 7 marks):

- 3 or more developed statements + named example (6 marks)
- 3 or more developed statements with at least one piece of place specific detail + named example (7 marks)

All answers, whether marked by point marking or levels, should have signs of having been assessed by the examiner. Crosses are acceptable to signify wrong answers and a red line accompanied by the letters 'I/R' should be used to indicate those which are irrelevant.

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- 1 (a) (i) (Average) number of deaths per 1000 people.

 1 mark
 - (ii) A. Central Africa

B. Western Europe/Eastern Europe/Northern

Asia (accept Europe)

2 @ 1 mark

[2]

- (iii) In both of parts A and B a comparative answer is ideal. However, many candidates will only refer to the first area stated in the question without specifically naming it. This approach is acceptable therefore comparative words are not required. A few candidates may refer to the second place listed only this is only acceptable if they specifically name it.
 - A. Ideas such as in Europe and North America:

more likelihood of obesity/over eating;

therefore increased chance of heart disease;

more people may smoke tobacco products;

therefore higher rates of cancer;

road traffic accidents may likely;

as traffic densities will be higher;

greater proportion of elderly people/ageing population;

higher stress levels etc.

3 @ 1 mark [3]

B. Ideas such as in Central and Southern Africa:

less availability of contraception/family planning/birth control;

less educated re. contraception;

less likely to be able to afford contraception;

less likely to worry about expense of bringing up children;

less likely for parents to work full time/women put careers first;

less likely that women will be educated;

female emancipation is less likely;

more likely to want children to work on the land;

more likely to want children to send out to earn money;

more likely to want children to look after parents in old age;

more likely to have higher IMR;

less awareness of problems caused by overpopulation;

less likely to be affected by government policy to reduce family size;

more likely to have large families due to tradition

credit impact of one child policy in China etc.

4 @ 1 mark [4]

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(b) (i) Ideas such as:

large number/proportion of old dependents/lots of old people/wide top;

increasing number/proportion of old dependents/decreasing number/proportion of dependents;

more living to 95+/people living longer/life expectancy increasing;

less than 10 000 at 95+ in 2000, c. 20 000 in 2025 (or could state figures for specific identified age groups within old dependents etc.

3 @ 1 mark or development for use of any figures supporting relevant statements (2 marks max with 1 mark reserved for use of figures)

(ii) Impacts such as:

increases dependency ratio;

strain on working population/higher taxation;

more money for pensions/to support elderly/for elderly to live on;

need for more care homes/health care/facilities for elderly etc;

not enough workers for key positions/smaller workforce/more non-economically active people:

difficult to defend country;

need to attract foreign workers;

services for young under utilised/uneconomical;

economy slows down/not so vibrant/less innovative workforce;

increase in retirement age;

creation of jobs caring for elderly etc.

etc.

5 @ 1 mark or development

[5]

[3]

(c) Levels marking

Level 1 (1-4 marks)

Statements including limited detail describing problems caused by overpopulation.

(e.g. people do not have enough resources, lack of work, inadequate food supplies, poor access to education, poor access to health care, overcrowded housing, traffic congestion, atmospheric pollution, inadequate water supply/sanitation, over-use of agricultural land/overgrazing, deforestation/loss of natural vegetation etc.).

Level 2 (3-5 marks)

More developed statements describing problems caused by overpopulation.

(e.g. lack of work which leads to poverty, inadequate food supplies which cause death by starvation/malnutrition, poor access to education so people remain unqualified, poor access to health care leads to high death rates, overcrowded housing with inadequate basic amenities etc.).

Level 3 (6–7 marks)

Uses named example (e.g. Bangladesh).

Comprehensive and accurate statements including some place specific reference.

(e.g. traffic congestion as there are far too many vehicles on the roads especially in cities such as Dhaka, overuse of agricultural land on floods plains of Brahmaputra/Ganges leads to loss of soil fertility/lower yields, widespread deforestation for firewood on slopes of Himalayas etc) [7]

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2 (a) (i) Areas where people live/houses are built.

1 mark

(ii) Ideas such as:

close to river:

within approx 2/3 kms;

some area close to railway;

some are around airport (or near transport links = 1 as alternative to both points above); most are surrounded by residential areas etc.

2 @ 1 mark [2]

(iii) Ideas such as:

use of river water in factory/for water supply; to use for cooling/as raw material in process (dev)

easy disposal of waste in river;

flat land likely in river valley;

near transport route/river/rail/air transport for access;

therefore reduces time/cost of transport/can easily import and export goods/reach markets/obtain raw materials (dev)

nearby workforce available etc.

3 @ 1 mark or development

[3]

(b) (i) Ideas such as:

population has grown;

steeply/rapidly/consistently;

it has tripled between 1950 and 2005;

grown from 4.5m to 14.3m/by 9.8m;

approximately 1m growth every 5 years;

(in absolute terms) growth rate has increased;

growth rate becomes more constant after 1980;

particularly rapid growth in e.g. 1975-80, 1980-85, 1990-95, 2000-2005 etc.;

3 @ 1 mark with development (MAX 2 with one reserved for correct reference to figures and years). [3]

(ii) Ideas such as:

inadequate housing stock/not enough houses;

due to rapid natural increase/inward migration;

or lack of local authority investment;

poverty of people/cannot afford to buy houses/houses expensive/rents high;

as they are unqualified/uneducated;

thus unemployed/working for low wages;

build them themselves:

overcrowding/lack of space near workplaces etc.

4 @ 1 mark or development

[4]

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(iii) Candidates could choose either extract and explain why the measures improve quality of life. No mark for describing method, credit reasoning. Credit for rejection of the measure not selected if given. It is likely that most candidate select extract B and explain using ideas such as: greater availability of clean water from taps:

will reduce incidence of disease;

latrines will prevent contamination of water;

surface drains will reduce standing water;

which is likely to smell/be polluted;

paved roads will mean they can travel more easily in cars/bikes;

and could lead to better quality/more regular/widespread public transport;

security lighting will improve personal safety/less danger of muggings;

rubbish bins will mean less litter dumped on streets/in rivers etc.

(NB Do not credit simple copy of bullets from extract)

Choice of extract A is likely to be explained by ideas such as: squatter settlements/shanty towns will be demolished; sources of disease removed: less people therefore less pressure on services or examples; removal of beggars from streets; possible crime rate reduction etc.

5 @ 1 mark or development

[5]

(c) Levels of response marking

Level 1 (1–4 marks)

Statements including limited detail which explain reasons for international migration. (e.g. more jobs, better services, more schools, more hospitals, not enough food, to escape persecution)

Level 2 (3–5 marks)

More developed statements which explain reasons for international migration.

(e.g. more jobs in cities where they can work in factories, greater access to hospitals/clinics for improved health care, can buy food from shops rather than rely on unproductive farmland, to escape from persecution of religious minorities.)

Level 3 (6-7 marks)

Uses named example.

Comprehensive, accurate and place specific statements.

(e.g. Turkey to Germany – few manufacturing jobs in Turkey as it was largely dependent on agriculture, movement to German cities such as Cologne to rebuild after World War 2, greater access to schools/hospitals/clinics in cities rather than rural Turkey, unproductive farmland as a result of poor agricultural techniques) [7]

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| | | | | GCE O LEVEL – May/June 2007 | 2217 | 3 |
| 3 | (a) | (i) | 5 1 ma | ark | | ambric |
| | | (ii) | SE/S | kms (allow 70–80 km) SSE 1 mark | | [2] |
| | | (iii) | fault it is plate mov lock build sudd | as such as: ts are line of weakness; a conservative margin; es are moving at either side of fault/alongside each oring at different pace/in different directions from each ted together/friction/stuck together; d up of pressure; den movement/jerk apart/pressure release etc. 1 mark | <u> </u> | er; [3] |
| | (b) | (i) | deat colla need loss disru risk loss dam nega dam poss econ | ential impacts such as: ths/injury; apse of houses/homes/homelessness; d to evacuate; //damage to of possessions/cars; uption to electricity/gas/water supply; of fires; of telephone communications; nage to workplaces/skyscrapers/unable to earn a livinative impact on tourism; nage to roads/bridges/gridlock; nage to tramways; sibility of looting; nomic implications of rebuilding etc. 1 mark | ng; | [3] |
| | | (ii) | trian meta desi deep flexi shat auto earth set u | as such as: struct low rise only; agular shape will be more stable; al frameworks to structures; igned to sway not collapse; p foundations/build on hard rock; ble water/gas pipes; tter proof glass; omatic gas switch off; hquake drills/education re. procedures/evacuation plup emergency teams etc. 1 mark or development | lan; | [4] |
| | | (iii) | they clos | as which could relate to any natural hazard (e.g. volce have lived there all their lives/sentimental attachmente to family/friends; k/education in areae.g. as tourist guides in areas | ent; | '); |

cannot afford to move;

pressure of living space;

fertile land;

geothermal energy; confidence in prediction/safety;

willing to take the risk etc.

5 @ 1 mark or development

[5]

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(c) Levels marking

<u>Level 1</u> (1–4 marks)

Statements including limited detail describing long or short term impacts of a volca eruption, tropical storm or drought.

(e.g. people killed, housing destroyed, roads and railways damaged, jobs lost etc.).

Level 2 (3–5 marks)

More developed statements describing long or short term impacts of a volcanic eruption, tropical storm or drought.

(e.g. people killed by hot lava/suffocation by toxic fumes, housing buried by lava/layers of dust, communications disrupted by lava covering roads/railways, devastation of lumbering industry by destruction of forests etc.)

Level 3 (6–7 marks)

Uses named example (e.g. Mt St Helens volcanic eruption).

Comprehensive and accurate statements including some place specific reference.

(e.g. 61 deaths/suffocation by toxic fumes, logging camps destroyed, communications disrupted by floodwaters washing away roads/railway bridges, every tree within 250 km² blast zone destroyed, all fish including those in a hatchery on Toutle River destroyed, Spirit Lake filled in).

[Total: 25]

4 (a) (i) Any value between 500 and 850 metres.

1 mark [1]

(ii) A. Mouth

B. Meander

2 @ 1 mark [2]

(iii) Ideas such as:

straight section appears to have constructed/river has been straightened; meanders have been by-passed/old route has dried out/you can see the old course; could be part of a flood prevention measure;

as water will get to sea more rapidly than before;

or it could be to prevent erosion;

as there appear to be buildings on the outside bank of a meander;

possibly straightened to aid navigation etc.

3 @ 1 mark or development

NB one mark reserved for each of how and why.

[3]

(iv) Methods of transportation such as:

traction; pushes large material along its bed (dev);

saltation; materials bounce with water flow (dev);

suspension; light materials carried in flow (dev);

solution; materials dissolved in water (dev);

4 at one mark or development.

NB Accept correct technical words as explanation if linked with wrong definition to max 3 marks [4]

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(b) (i) Differences such as:

Nile's delta is on north facing coast/Mississippi's south facing;

Nile's delta covers a larger area of land;

Nile's delta has more distributaries:

Mississippi's appears to project out into sea more/projecting 'fingers/lobes';

Nile's seaward side smoother;

Distributaries close together in Mississippi delta;

Mississippi lobate or bird's foot/Nile arcuate etc.

3 @ 1 mark

[3]

(ii) Explanation of how/why a delta is formed (no reserve marks) which may include ideas such as:

deposition of sediment/alluvium (by river);

as speed of flow slows down/energy reduced/cannot carry load;

especially if river is heavily laden with silt;

absence of major tidal flows/currents;

impact of salt water causes further deposition/flocculation;

growth of vegetation raises it above sea level;

distributaries form/river splits around sediments laid down:

further accumulation over time/repetition of process etc.

5 @ 1 mark or development

NB Credit points made either on labelled diagrams or in written text

[5]

(c) Levels marking

<u>Level 1</u> (1–4 marks)

Statements including limited detail describing what can be done to reduce flooding.

(e.g. build higher banks, plant trees in drainage basin, build dams/reservoirs along course of river, straighten river etc.).

Level 2 (3–5 marks)

More developed statements describing what can be done to reduce flooding.

(e.g. build higher banks so the river will have a greater capacity, raise banks especially in areas where river flows at a higher level than flood plain, plant trees so flow will not be so flashy/so less water will get to river as more evapo-transpiration occurs; build dams to regulate flow of water, straighten river so water is removed from drainage basin more quickly etc).

Level 3 (6–7 marks)

Uses named example (e.g. River Mississippi).

Comprehensive and accurate statements including some place specific reference.

(e.g. built high levees so the river will have a greater capacity, raised banks protecting cities like Memphis where river flows at a higher level than flood plain, planting trees in Tennessee Valley so flow will not be so flashy/so less water will get to river as more evapo-transpiration occurs; much straightening of river/meanders cut off between New Orleans and Memphis etc.).

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5 (a) (i) 20% 1 mark

(ii) A. USA B. Japan

2 @ 1 mark

[2]

(iii) Ideas such as:

greater mechanisation/automation;

now they import many products/manufacturing done in LEDCs;

as it is cheaper/high wages/cannot compete;

decline of heavy industry/factories close (e.g. shipbuilding/steel);

people prefer to work in service industry/there is now much tertiary industry;

as people are more educated/skilled;

and they can earn higher wages in service sector;

raw materials run out etc.

3 @ 1 mark or development

[3]

(iv) Candidates need to expand on the ideas in Fig. 7B not just copy them e.g.: suppliers of parts will close because they lose business;

workers lose jobs and may not be able to find other work;

when workers lose jobs they do not have money to spend in the community;

so other businesses (shops/entertainments) will make less money;

people may have to move out as there is no other work locally;

domino effect/negative multiplier effect etc.

4 @ 1 mark or development

[4]

(b) (i) Raw materials: unprocessed goods/products (which are used in manufacture).

Processes: things which happen in the factory to turn raw materials into finished products.

Outputs: the finished results of processing/items made in the factory/industrial waste/finished final products/products to be sold.

3 @ 1 mark [3]

(ii) Credit at one mark per illustration of input/process/output of chosen manufacturing or processing industry.

e.g. iron making (NO mark for example):

iron ore main raw material;

coal/coke used as fuel/power supply;

limestone acts as a flux;

iron ore smelted in blast furnace;

skilled labour required;

molten iron solidifies into ingots;

iron main product;

main market is steel industry etc.

5 @ 1 mark

[5]

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(c) Levels marking

Level 1 (1-4 marks)

Statements including limited detail explaining why high technology industries were attracted. (e.g. large workforce, good transport links, accessible, near airport, near motorway, cheal land etc.).

Level 2 (3-5 marks)

More developed statements explaining why high technology industries were attracted (e.g. skilled, highly qualified workforce, workers can be paid low wages, good motorway links for access to markets, proximity to international airport for international business, large areas of attractive, greenfield sites to attract potential workers etc.).

Level 3 (6-7 marks)

Uses named example (e.g. Malaysia).

Comprehensive and accurate statements including some place specific reference.

(e.g. skilled, highly qualified workforce, workers can be paid low wages, good motorway links for access to markets, proximity to Kuala Lumpur International Airport, government investment into planned high tech industrial areas such as at Penang (Silicon Island), government 'technology action plan' put emphasis on technology etc.). [7]

[Total: 25]

6 (a) (i) 4000

1 mark [1]

(ii) A. Varadero

B. Ciego de Avila

2 @ 1 mark [2]

(iii) Ideas such as:

increase in local traffic/congestion/atmospheric pollution from traffic;

loss of local culture/traditional way of life;

impact of behaviour of tourists/drunkenness etc;

noise from tourists;

exploitation/low paid jobs/long hours;

seasonal work;

shortage of water supplies;

litter from tourists;

lack of privacy;

loss of land/space for building

local businesses lose out to large companies;

increase in local prices etc.

3 @ 1 mark [3]

(iv) Ideas such as:

more jobs are created for local people/opportunities to earn money/e.g. in hotels/souvenir shops/raises standard of living/improves quality of life etc. (to MAX 2); foreign exchange/income/boosts economy/taxes raised by government (to MAX 2);; enabling spending on education/hospitals etc. (to MAX 2);

development of infrastructure (water, electricity, transport etc. to MAX 2);

increase in leisure facilities/cinemas/retail outlets etc. (MAX 2)

increases skills base of local people/learn languages;

cultural exchange;

retention of culture/traditions;

increased market for local farmers:

sales of local craft items etc.

4 @ 1 mark or development

[4]

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(b) (i) Candidates need to expand on the ideas shown in the

headlines, not just copy them e.g.:

vegetation/plant life trampled/killed by people swimming on reefs;

boats anchoring on reefs could damage the corals;

extension of runway will mean wetlands are reclaimed/plant species may be unable to thrive elsewhere:

resort/casino could cause visual impact;

resort/casino could increase disposal of sewage in sea;

forest may have to be cleared to build resort/casino;

consequent destructions of habitats;

loss of species/extinction:

litter/garbage impacting water/land etc.

[3] 3 @ 1 mark

(ii) Ideas such as:

restricting tourist numbers;

by dealing with a limited number of tourist firms;

or increasing prices;

ensuring wildlife is conserved;

ensuring vegetation/habitat is not cleared for tourist development;

encouragement of ecotourism;

setting up National Parks/conservation areas;

education of tourists regarding environmental issues;

employing people to clear up regularly in sensitive areas;

restricting access to sensitive areas;

banning tourists from hunting activities;

using local labour

using local provisions etc.

5 @ 1 mark or development

[5]

(c) Levels marking

<u>Level 1</u> (1–4 marks)

Statements including limited detail describing the impacts of human activity on the natural environment.

(e.g. kills animals, causes floods, washes soil away, makes the land bare, causes air pollution, causes global warming etc.).

Level 2 (3–5 marks)

More developed statements which describe the impacts of the chosen human activity on the natural environment e.g. ranching in Amazonia.

(e.g. kills animals threatening species with extinction, impacts on food chain, loss of habitat, reduces interception increasing run off; causes floods as soil is washed into rivers, reduces soil fertility, causes global warming due to increase in greenhouse gases etc.).

(NB MAX 1 L2 statement on global warming.)

Level 3 (6–7 marks)

Uses named example (e.g. ranching in Amazonia).

Comprehensive and accurate statements including some place specific reference.

(e.g. 1000s of species in the state of Mata Grosso are threatened with extinction, impacts on food chain, loss of habitat in marshy areas alongside River Amazon, reduces interception increasing run off; causes floods as soil is washed into River Amazon and its tributaries, reduces soil fertility etc.).