Mark Scheme (Results)

Summer 2010

IGCSE Geography (4370) Paper 2H

General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.

- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.

- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.

- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.

- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.

- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.

- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.

- Crossed out work should be marked UNLESS the candidate has replaced it

Section A

1. Water

Question Number	Answer	Mark
1(a)(i)	Maximum 3 marks. Award maximum marks for either 3 stated characteristics • e.g. wider channels (1); • higher discharge (1); • greater water depth (1) ..) or equivalent eg. Water spread out. Or 2 differences with some description • e.g. channel widths from Figure 1. Credit both observation and/or knowledge	(3)

Question Number	Answer	Mark
1(a)(ii)	Maximum 2 marks. Credit appropriate evaluative description • e.g. major; very serious .. with 1 mark and 2nd mark for supporting evidence (e.g. 33 700 evacuees) or max for identifying two impacts only.	(2)

Question Number	Answer	Mark
1(a)(iii)	Maximum 5 marks. Reserve 2 (2x1) marks for each of introducing idea of meandering (1) and concept of migration • e.g. meander migration = 2x1. 1-3 marks available for explaining migration process on points basis • e.g. erosion on outside of bend (1); • lateral swing (1); • straightening... (1)	(5)

Question Number		
1(b)		
Level	Mark	Descriptor
Level 1	1-2	Expect relevant basic factors e.g. heavy rainfall; silting; high run-off.
Level 2	3-4	Expect some development of at least one cause. For max. marks expect at least two relevant reasons i.e. developed factors, perhaps physical (e.g. heavy rainfall ..) and human (e.g. high urban run-off ...)

Question Number		
1(c)		Reserve 2 marks for meaning of river engineering i.e. basic clarification (e.g. altered by people ..) = 1. Fuller explanation e.g. controlled/tamed .. = 2 marks. Levels mark response on ways of engineering: (6)
Level	Mark	Descriptor
Level 1	1-2	Expect ways of river engineering listed e.g. embankments; channelisation…
Level 2	3-4	Expect some description of more than one way into the field of how it changes the river (e.g. increases channel capacity …). Expect details and/or named examples for top of level.

(Total 20 marks)

2. Hazards

Question Number	Answer	Mark
2(a)(i)	Maximum 2 marks. Award 1 mark for each of depth/speed of flow, and town in way (large death toll).	(2)

Question Number	Answer	Mark
2(a)(ii)	4 x 1 marks. Maximum 4 marks. Award 1 mark for each of following aspects of sequence: • river flooding > mudflow (1); • landslides > mudflow (1); • heavy rain/melting ice > river flooding (1); • eruption melts ice > landslide (1).	(4)

Question Number	Answer	Mark
2(a)(iii)	Maximum 4 marks. By "other" = non-mudflow. Award up to 2 marks for each of human problems provided in context with named eruption. • e.g. burial of settlements… and environmental problems • e.g. vegetation destroyed … Max of 3 for generic problems. In each case, max for either two stated problems or one problem described.	(4)

Question Number	
2(b)	

Level	Mark	Descriptor
Level 1	1-2	Expect simple references to plate margins and magma release. Briefly labelled but apt diagram may be offered.
Level 2	3-4	Expect some process e.g. destructive plate margin with subduction and pressure release. Annotated, appropriate diagram may be offered.

Question Number		
2(c)		
Level	Mark	Descriptor
Level 1	1-2	Expect reference to either volcanic risks (e.g. death; crop damage ..) or benefits brought by volcanoes (e.g. fertile soils; tourist income ...)
Level 2	3-4	Expect a strong account of either volcanic risks (perhaps including how they vary and reduce with distance) or volcanic benefits OR broad reference to both aspects.
Level 3	5-6	Expect both risks and benefits addressed for top of level. Bottom of Level for strong responses covering a range of benefits.

(Total 20 marks)

3. Production

Question Number	Answer	Mark
3(a)(i)	Maximum 3 marks. 3x1 per distributional feature. i.e. • general spread or centres named (1) • general concentration/regional (1) • examples of regions e.g. Midlands (1)	(3)

Question Number	Answer	Mark
3(a)(ii)	Maximum 4 marks. Reserve 1-2 marks for basic map-based information on traditional versus new areas (e.g. places & dates). 1-3 marks for explanation of relocation. One full, developed reason = 2 marks. Relevant factor stated = 1 mark. Credit any valid factor e.g. government grants; new producers ...	(4)

Question Number	Answer	Mark
3(b)	Maximum 3 marks. 1 mark for stated characteristic e.g. R & D , capital intensive. Second mark for development Up to 2 marks available for application to car manufacture e.g. robotics, or location characteristics e.g. near universities.	(3)

Question Number		
3(c)(i)		
Level	Mark	Descriptor
Level 1	1-2	Expect either lists of relevant factors (e.g. wealthier; more industry ..) or one such factor developed into full reason
Level 2	3-4	Expect at least two developed factors (full reasons) for top of level. Long list acceptable for L2-.

Question Number	Answer	
3(c)(ii)	Maximum 6 marks. 3 marks for location 3x1 e.g. isolated (1) 2nd mark for development e.g. isolated – human risks For a named station and brief description of location, limit to one mark. 3 marks for benefits max 2 if generic e.g. carbon-free 3x1 2nd/3rd marks for development Max requires local focus e.g. jobs; multiplier effect.	(6)

(Total 20 marks)

4. Development

Question Number	Answer	Mark
4(a)(i)	Maximum 3 marks. Look to 3x1 point mark for ex-port and/or redeveloped • e.g. waterside(1); • landscaped open space(1). Award 2 marks for relevant developed points (e.g. modern, high-rise apartments/penthouses for ...). Credit accurate observation plus reasonable interpretation/prior knowledge of redeveloped waterside areas.	(3)

Question Number	Answer	Mark
4(a)(ii)	Maximum 4 marks. Expect to either 4x1 point mark if points distinctive • e.g. docks abandoned(1); • houses derelict(1); • area rundown(1) ...) Or award 2 marks per developed point (e.g. shipping chose new ports so docks abandoned ...) Business moved out leaving derelict land	(4)

Question Number	Answer	Mark
4(a)(iii)	Maximum 3 marks. Reserve 1-2 marks for identifying that local people contrast with developers • e.g. ex-dockers; poor; low skilled ..) • and those they develop for (e.g. young; ambitious...) 1-2 marks for recognising local needs • e.g. affordable housing; basic jobs; everyday shopping.. or point that new shops/jobs not for locals.	(3)

Question Number	
4(b)(i)	

Level	Mark	Descriptor
Level 1	1-2	Expect development indicators listed with loose reference to named country e.g. GDP higher in N. Italy ..
Level 2	3-4	Expect explicit reference to disparities in named country e.g. Italian north-south divide. Long list of indicators reference to country = 3 marks.

Question Number	
4(b)(ii)	

Level	Mark	Descriptor
Level 1	1-2	Expect short list of relevant factors e.g. government policy; resource exhaustion ; new industries …
Level 2	3-4	Expect some explanation either thoroughly of one valid factor or briefly of two factors
Level 3	5-6	Expect explanation in context of at least two relevant and developed factors. For max expect causes of disparity to be explicit and place specific.

(Total 20 marks)

5. Migration

Question Number	Answer	Mark
5(a)(i)	1 mark for correct answer. • 1 mark for valid definition of migration Must include address change on a permanent basis.	(1)

Question Number	Answer	Mark
5(a)(ii)	1 mark for correct answer. • rural-to-urban(1)	(1)

Question Number	Answer	Mark
5(a)(iii)	2 + 2 marks. Maximum 4 marks. **NB – question refers to rural-to-urban migration.** Award 2 marks for each end of journey: Rural: disadvantages strong (1); pushed out (1); examples such as poor harvest (1) Urban: advantages strong (1); pulled in (1) examples such as job prospects (1).	(4)

Question Number	Answer	Mark
5(a)(iv)	Maximum 4 marks. 2 + 2 marks. 1 for identifying obstacle or opportunity and 1 for stating impact. Award marks for each aspect: 1. Obstacle e.g. hostilities (1) turn back or halt (1) 2. Opportunity e.g. chance of work (1), settle down (1). Accept for all types of migration. eg. international.	(4)

Question Number	Answer	Mark
5(a)(v)	Maximum 4 marks. Expect to award 1 mark per valid and distinctive strategy named • e.g. shanty demolition(1); • shanty self-help schemes(1); • rural development programmes(1). Reserve max marks for responses that describe or clarify management aspect. Ceiling of two marks for reference to other migration	(4)

		types. e.g. international migration.	

Question Number			
5(b)			
Level	Mark	Descriptor	
Level 1	1-2	Expect consequences of rural-to-urban migration stated e.g. rural depopulation; urban population pressures .. Perhaps unbalanced as well as brief response	
Level 2	3-4	Expect balanced coverage re urban and rural but unbalanced in depth and detail.	
Level 3	5-6	Expect explanatory coverage of both rural losses and urban growth.	

(Total 20 marks)

6. Urban Environments

Question Number	Answer	Mark

6(a)(i)	Maximum 2 marks. 2x1
	
	    1. Columns A-E. rows 4 and 5. Any one e.g. 4c
	    2. Columns A-H. rows 1 and 2. Any one e.g. B2
		(2)

Question Number	Answer	Mark
6(a)(ii)	Maximum 2 marks for correct evidence. e.g. • 1. inner city: rows 4 and 5(1) or square B5/5B; • factory (1), • terraced housing (1) … • 2. RUF: row 2(1) • where housing and fields(1) …	(2)

Question Number	Answer	Mark
6(b)(i)	Maximum 4 marks. Adopt either 4 x 1 point marking • e.g. de-industrialisation(1); • new housing(1); • supermarket(1) ..) Or award 2 marks for developed point (e.g. improved housing such as new flats and renovated terraces with gardens ..)	(4)

Question Number	Answer	Mark
6(b)(ii)	Maximum 2 marks. Adopt either 2x1 point marking • e.g. moved outwards(1); • old fringe built on(1); • industry and housing on greenland(1)..) Or award 2 marks for developed point • e.g. moved outwards as urban sprawl occurred and building on once fields)	(2)

Question Number		
6(b)(iii)		
Level	Mark	Descriptor
Level 1	1-2	Expect responsible factors (rather than land users named) e.g. large building space; car access; near to motorways …
Level 2	3-4	Expect either a long list of relevant factors (max of L2-/3 marks) or factors developed into full reasons. Latter essential for max mark.

Question Number		
6(c)	Reserve 2 marks for greenfield/brownfield distinction (e.g. 2x1 for definitions of each type of site) Remaining 4 marks to be levelled. (6)	
Level	Mark	Descriptor
Level 1	1-2	Expect either a simple statement summarising the controversy (e.g. better to recycle used land than ruin natural land ..) or an argument re one type of site only.
Level 2	3-4	Expect a balanced response dealing with both types of site and the case for using them (may be site disadvantages as well as advantages).

(Total 20 marks)

Section B

7. Fragile Environments

Question Number	Answer	Mark
7(a)	Maximum 2 marks. • Accept either less and less of Borneo forested(1) or deforestation. • deforestation slowing(1). N.B. deforestation only is insufficient.	(2)

Question Number	Answer	Mark
7(b)	Maximum 4 marks. 1 mark available for clarification/definition of terms i.e. ecosystem & deforestation Remaining marks (2-3) for process e.g. trees cleared leading to increased run-off & soil erosion …) Possible to award max for clear explanation in which terms implicit.	(4)

Question Number	Answer	Mark

7(c)	3 x 3 marks. Maximum 9 marks.
	
	1. 3 marks available.
	  Adopt 3x1 valid and distinctive point marking
	  • e.g. hunter-gatherers(1) ..)
	
	With 2 marks available for developed points (e.g. depend on forest for … such as …)
	
	2. 3 marks available.
	  Adopt 3x1 strategy e.g. species-rich (1)
	
	3. 3 marks available.
	  Adopt 3x1 strategy e.g. CO_2 - global warming link (1)
	  Burning and CO_2 release (1) Photosynthesis (1)
		(9)

Question Number	

7(d)		
Level	Mark	Descriptor
Level 1	1-2	Expect listing of activities associated with deforestation e.g. logging; ranching; road building. Short lists.
Level 2	3-4	Expect either examples or some explanation of a limited number of offending activities. Long lists of relevant activities = L2- (3 marks)
Level 3	5-6	Expect a range of offending activities described and explained in context of named places so that reasons explicit.

Question Number	
7(e)	

Level	Mark	Descriptor
Level 1	1-3	Expect stating of sustainable forest management strategies e.g. agroforestry; secondary foresting … Short list.
Level 2	4-6	Expect either naming of schemes or indication as to how sustainability works (perhaps clarification of term). Accept ideas and outlines of efforts. Long list of strategies.
Level 3	7-9	Expect both named examples and clarification as to environmental/economic sustainability of strategies. Case-study knowledge of schemes.

(Total 30 marks)

8. Globalisation

Question Number	Answer	Mark
8(a)	Maximum 4 marks. Award up to 2 marks for each of 1 and 2. Adopt valid point marking approach within each section e.g. • increased exports(1) section 1 • approx. 4-5 times more $s (1) section 1 • more manufactured goods(1) section 2 Expect second mark to be awarded for data support	(4)

Question Number	Answer	Mark
8(b)(i)	Maximum 6 marks. 1 mark for clarification/definition of shift 2 marks for description/identifying the shift e.g. industrialisation in China and other SE Asian countries. 3 marks for reasons e.g. cheap labour, lax health and safety regulations… 1 mark for stated factor, 2 marks for full developed reasons	(6)

Question Number	Answer	Mark
8(b)(ii)	Maximum 2 marks. 1 mark for each of the following: • Chinese exports mainly manufactures • Global Shift = manufacturing moving to Asia	(2)

Question Number	Answer	Mark
8(b)(iii)	3 x 1 marks. Maximum 3 marks. e.g. • rising Chinese wage rates(1); • lower wage rates in other countries(1); • development/exemplification of one of the above (1)	(3)

Question Number	Answer	Mark
8(c)	Maximum 6 marks. Award up to 4 marks for identification of benefits/costs (4x1 with max of 3 for one side). Reserve further 2 marks for description. Expect benefits identified: - jobs; - investment; - technology transfer .. with description into ideas of multiplier effects, foreign earnings .. possible. Costs given might include: - pollution; - exploitation; - diversion of resources …	(6)

Question Number	Answer	Mark
8(d)	3 x 3 marks. Maximum 9 marks. Ensure in each case max mark responses account for growth of global economy (e.g. interdependence; connectivity ..) explicit. Allow within each 3 mark sub-set 1 mark for clarifying meaning of factor e.g. definition or example of aid, IT = 1 mark). 2-3 mark responses must explain the link. e.g. IT: internet allows for foreign mail ordering (1); rapid global searches fro cheaper supplies (1)… and links buyers and sellers around world (1).	(9)

(Total 30 marks)

9. Human Welfare

Question Number	Answer	Mark
9(a)(i)	1 mark for correct answer. Credit basic difference, that of births per individual rather than per 1000 people. Accept two separate but accurate definitions(1) and birth rate definition alone (1)	(1)

Question Number	Answer	Mark
9(a)(ii)	Maximum 4 marks. Max can be for explanation of sole cause • e.g. Chinese one-child policy… Or for two developed reasons • e.g. government policy and economic development via materialism, female education… Max of 3 for relevant factors stated only.	(4)

Question Number		
9(a)(iii)		
Level	Mark	Descriptor
Level 1	1-2	Expect growing population and resource pressures (e.g. not enough food ..) idea.
Level 2	3-4	Expect terms, population stability & living standards clarified (i.e. zero growth) plus some explanation of population-resources to raise living standards relationship.

Question Number		
9(b)		
Level	Mark	Descriptor
Level 1	1-2	Expect valid indicators, especially social & environmental stated e.g. infant mortality rate; literacy rate .. Accept GDP or equivalent.
Level 2	3-4	Expect some explanation of how indicators reflect quality of life or description of a quality of life index (e.g. HDI). Long list of valid indicators =L2- (3 marks)
Level 3	5-6	Expect full explanation of an index or a range of valid indicators explained in terms of their contribution to quality of life.

Question Number	
9(c)	

Level	Mark	Descriptor
Level 1	1-2	No direct mark for naming though expect valid name (e.g. UNICEF; Oxfam...) and a basic outline of their aid work in LEDCs e.g. distributing food; running clinics... Credit generic comments
Level 2	3-4	Expect description of agency's aid activities in LEDCs. Agency/NGO to be named.
Level 3	5-6	Expect detailed description, perhaps place examples of named agency/NGO activities. Reference to QOL raising/national differences narrowing expected at top of level (L3+/6marks).

Question Number	
9(d)	

Level	Mark	Descriptor
Level 1	1-3	Expect basic factors listed/stated e.g. economic development levels (LEDC/MEDC); resource endowment; government decisions ... Simple statements about LEDC/MEDCs may be offered.
Level 2	4-6	Expect some explanation of factors or description of examples (e.g. countries with low QOLs and stated factors .)
Level 3	7-9	Expect named examples of countries plus explanation of range of contributory factors. Case study-style answers may be given.

(Total 30 marks)