

# **GCSE**

# **Geography B (Short Course)**

General Certificate of Secondary Education A772/01

Key Geographical Themes (Foundation Tier)

# Mark Scheme for June 2010

OCR (Oxford Cambridge and RSA) is a leading UK awarding body, providing a wide range of qualifications to meet the needs of pupils of all ages and abilities. OCR qualifications include AS/A Levels, Diplomas, GCSEs, OCR Nationals, Functional Skills, Key Skills, Entry Level qualifications, NVQs and vocational qualifications in areas such as IT, business, languages, teaching/training, administration and secretarial skills.

It is also responsible for developing new specifications to meet national requirements and the needs of students and teachers. OCR is a not-for-profit organisation; any surplus made is invested back into the establishment to help towards the development of qualifications and support which keep pace with the changing needs of today's society.

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by Examiners. It does not indicate the details of the discussions which took place at an Examiners' meeting before marking commenced.

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 should be read in conjunction with the published question papers and the Report on the Examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

© OCR 2010

Any enquiries about publications should be addressed to:

OCR Publications PO Box 5050 Annesley NOTTINGHAM NG15 0DL

Telephone: 0870 770 6622 Facsimile: 01223 552610

E-mail: publications@ocr.org.uk

Que	stion	1	Expected Answers	Mks	Rationale
1	(a)	Study <u>Fig. 1</u> a storm hydrograph.			
		(i) At what time was peak rainfall?	1 mark for 04.00 (hours)	[1]	No mark if a range of times given containing the correct answer
		(ii) At what time was peak river discharge?	1 mark for 07.00 (hours)	[1]	No mark if a range of times given containing the correct answer
		(iii) What was the lag time between peak rainfall and peak discharge?	1 mark for 3 hours	[1]	
	(b)	Suggest two reasons to explain why peak river discharge happened some time after peak rainfall.		[4]	1 mark for each valid reason second mark for each explanation of how water is trapped/delayed give 1 mark for basic idea about rainwater taking time to reach the river  Full marks if two valid transfers/stores described with detail even if key words not used.
	(c)	Study Fig. 3 a photograph of the tow of Tewkesbury during the flood of 2007. Tewkesbury is located on the floodplain of the River Severn. What is a floodplain?	river, at sides of river	[2]	No mark for flat land only, must be linked to river or flooding
	(d)	Suggest how people's lives would be affected by flooding.	Content Guide: Upset/distress, loss of life Damage to property/furniture; evacuation; costs of repairs; increased insurance costs. Shops, workplaces, schools flooded/damaged	[4]	1 mark for each valid way (4 x 1) credit for development of one/two ideas including accurate facts/data  no credit for vague ideas about people's lives

		Unable to get to work/access shops & services due to flooded roads/transports Disruption of relief operations People stranded/cut off		being disrupted
(e)	which can protect people and property from flooding. Explain how each method works.	Content Guide:  Methods could include prediction and early warning systems, evacuation to safety.  Short term preparations eg sand bags etc Longer term schemes such as drainage channels, flood barriers, planned floodplains etc Restrict building/development on floodplains Houses on stilts  Explanation should include how water is prevented from affecting property and/or how people are warned and given time to evacuate or protect their property	[4]	(2 x 2)  1 mark for each valid method second mark for each explanation of how method works If more than two methods given without any explanation, credit two methods for two marks only  No credit for vague ideas about walls/barriers.
(f)	<ul> <li>CASE STUDY: An example of a river landform. You need a relevant example.</li> <li>Name one example of a river landform.</li> <li>Draw a detailed, labelled sketch diagram to show what the landform looks like.</li> <li>Explain in detail how some processes (such as weathering, erosion, transport and deposition), have created the landform.</li> </ul>	O marks Response does not address the requirements of the question.  Level 1 (1–3 marks) Demonstrates limited knowledge and understanding.  Gives a relevant example and one basic idea.  Names a valid river landform and Shows one relevant feature in a sketch or States a relevant process  Written work contains mistakes in spelling, punctuation and grammar, which sometimes hinder	[8]	Named landform could be named example or a type of landform eg High Force or waterfall.  Full marks available if landform not named at top of answer but clearly labelled in sketch/text  Max 2 marks, if no named river landform given or sketch or coastal example used, but relevant ideas about how river processes affect river landforms.  1 mark if only gives a valid river landform.

ATTZIOT	Walk Scheme	Julie 2010
	communication.  Level 2 (4–6 marks)  Demonstrates sound knowledge and understanding.  Gives a relevant example, a basic idea in each section, with one section developed in detail.  Names a valid river landform and  Shows one relevant feature in a sketch and  States a relevant process and  Adds relevant detail to the sketch or  Explains how the process has created the landform with detail or additional ideas	1 mark for basic sketch of a recognisable river landform but no name given  Max 5 marks if no sketch but named landform in text with detailed explanation of relevant process(es)
	Written work is legible and spelling, punctuation and grammar are mostly accurate.  Meaning is communicated clearly.  Level 3 (7–8 marks)  Demonstrates thorough knowledge and understanding.  Gives a relevant example, with developed ideas in each section.  Names a valid river landform  and  Shows one relevant feature in a sketch  and  States a relevant process  and  Adds relevant detail to the sketch  and  Explains how the process has created the landform with detail or additional ideas  Written work legible and spelling, punctuation and	
	grammar are accurate.  Meaning is communicated very clearly.	

Question	Expected Answers	Mks	Rationale
Question	Content Guide:  Named landform could be a named example or a landform type eg High Force or waterfall.  A named example not needed for full marks.  Specification Content = meanders, interlocking spurs, floodplains, river cliffs, valleys, waterfalls Accept other valid landforms eg river terraces, delta, ox-bow lake, gorge.  Characteristic features in sketch will show shape/structure of landform.  Labels could indicate size/relief, rock type and/or other relevant features eg plunge pool, point bar, thalweg, distributaries.  Will need to explain how process operates for L2/3 by either describing how process has shaped/is shaping the landform or by use of appropriate vocabulary for processes eg abrasion, hydraulic action, solution.  Credit for valid place detail added to sketch or text  No credit for simple repetition of words weathering, erosion, transport and deposition.  Full credit if ideas about processes are added to the sketch.	MKS	Rationale
	Total	[25]	

Que	stion			Expected Answers	Mks	Rationale
2	(a)	Study Fig. 4 a map showing coastal erosion on the Holderness coast of England.				
		(i)	How many settlements have been lost to coastal erosion?	1 mark for 25.	[1]	No mark for a range of numbers including the correct answer
		(ii)	What is the approximate length of the coastline being eroded?	1 mark for 70km.	[1]	Credit if correct answer is indicated without a circle No marks if more than one answer given
		(iii)	Which of these settlements is most at risk of future erosion?	1 mark for Withernsea.	[1]	Credit if correct answer is indicated without a circle No marks if more than one answer given
	(b)	Briefly describe the evidence of coastal erosion shown in Fig. 5.		1 mark per valid eg cliff collapsed/slumped, fence collapsed, exposed soil/clay, loss of garden, building on edge of cliff, vegetation on cliff side, vertical cliff face	[2]	No credit for 'it has eroded' or similar statement without evidence
	(c)	Describe how people's lives would be affected by coastal erosion.		Content Guide: Credit for damage to/destruction of property, loss of land, decline in property values, no insurance cover, need to move, upset/distress, danger of people/vehicles falling, roads closed, impact on tourism/local business, expense of coastal defences	[4]	1 mark for each valid way (4 x 1) credit for development of one/two ideas  no credit for loss of life no credit for vague ideas about people's lives being disrupted
	(d)	proc	cribe <u>two</u> natural cesses which could se the erosion wn in <u>Fig. 5</u> .	Content Guide: Relevant processes are abrasion/corrasion, hydraulic action, solution/corrosion. Detail could be definition of process and/or explanation how it operates to erode the cliff Credit reference to slumping/undercutting as this is evident in Fig. 4.Full marks if two valid processes described with detail even if key words not used.	[4]	(2 x 2) 1 mark for valid process second mark for detail no credit for attrition or use of word erosion if not linked to how process operates credit for naming a process without description eg hydraulic action only

Question	Expected Answers	Mks	Rationale
(e) State two meth which can be u protect the coa erosion. Explai each method w	credit for hard engineering options eg sea wall, roc armour, rock barriers, gabions, groynes, sea bees and softer options such as bead	ch	(2 x 2) 1 mark for valid method second mark for explanation or detail no credit for managed retreat, resettlement and 'do nothing' No credit for vague ideas about walls/barriers
(f) CASE STUDY: example of a collandform. You need a rele	Case study will be marked using 3 levels  oastal  o marks  Response does not address the requirements of th question.	[8] ne	
Name <u>one</u> ex of a coastal landform.	Level 1 (1–3 marks)  Demonstrates limited knowledge and understanding	ıg.	Named landform could be named example or a type of landform eg Old Harry or a stack.
<ul> <li>Draw a detain labelled sket show what the landform local state of the landform landform local state of the landform local state o</li></ul>	ch to ne ks like.  Names a valid coastal landform and Shows one relevant feature in a sketch or States a relevant process erosion, d Written work contains mistakes in spelling,	r	Full marks available if landform not named at top of answer but clearly labelled in sketch  Max 2 marks, if no named coastal landform given or sketch or river example used, but relevant ideas about how coastal processes affect coastal landforms.  1 mark if only gives a valid coastal landform.
landform.	Level 2 (4–6 marks) Demonstrates sound knowledge and understandin Gives a relevant example, a basic idea in each section, with one section developed in detail.	g.	mark for basic sketch of a recognisable coastal landform but no name given  Max 5 marks if no sketch but named landform

Question	Expected Answers	Mks	Rationale
			in text with detailed explanation of relevant
	Names a valid coastal landform		process(es)
	and		. , ,
	Shows one relevant feature in a sketch		
	and		
	States a relevant process		
	and		
	Adds relevant detail to the sketch		
	or		
	Explains how the process has created the landform with detail or additional ideas		
	Written work is legible and spelling, punctuation and		
	grammar are mostly accurate.		
	Meaning is communicated clearly.		
	Level 3 (7–8 marks)		
	Demonstrates thorough knowledge and understanding.		
	Gives a relevant example, with developed ideas in		
	each section.		
	Names a valid coastal landform		
	and		
	Shows one relevant feature in a sketch		
	and		
	States a relevant process		
	and		
	Adds relevant detail to the sketch		
	and		
	Explains how the process has created the landform with detail or additional ideas		
	Written work legible and spelling, punctuation and		
	grammar are accurate.		

Question	Expected Answers	Mks	Rationale
	Meaning is communicated very clearly.		
	Content Guide: Named landform could be a named example or a landform type eg Old Harry or stack. A named example not needed for full marks.  Specification Content = cliffs, headland, cave, arch, stack, beach, spit. Accept other valid landforms eg wave cut platform, stump, bars, tombolo, bay  Characteristic features in sketch will show		
	shape/structure of landform. Labels could indicate size/relief, rock type and/or other relevant features eg recurved end, blowhole, beach ridge.		
	Will need to explain how process operates for L2/3 by either describing how process has shaped/is shaping the landform or by use of appropriate vocabulary for processes eg abrasion, hydraulic action, solution.		
	Credit for valid place detail added to sketch or text		
	No credit for simple repetition of words weathering, erosion, transport and deposition.		
	Full credit if ideas about processes are added to the sketch.		
	Total	[25]	

Que	stion	1		Expected Answers	Mks	Rationale
3	(a)	advert	Fig. 6, an Oxfam t for an aid project i vi, an LEDC in Africa			
		a	Which type of nimal is given to a family in need?	1 mark for cow or cattle.	[1]	No mark for calf or calves
		`	State <u>two</u> outputs broduced by the nimal.	milk, manure, calves.	[2]	1 mark for each output no mark for meat or money
	(b)	How could the family's quality of life be improved by this aid project?		<ul> <li>Content Guide:</li> <li>Credit for:</li> <li>increased income spent on clothing, school equipment, food supplies if needed</li> <li>milk and crops – improved diet/health.</li> <li>credit for manure increasing crop yields for sale/consumption</li> </ul>	[4]	1 mark for each valid way (4 x 1)  credit for development of one/two ideas no credit for outputs being sold must focus on good points for family 1 mark only for copied ideas about school etc
	(c)	Explain two ways in which the aid project shown in Fig. 6 is sustainable.		Content Guide:  Sustainability features need to make reference to the future of the project and not repeat (b) above.  • Environmental – fertility of soil improved by manure for future use, without damaging the environment (chemicals)  • Economic – calves are produced for future use/sale  • Social – family control the project, can pass on knowledge/skills to others;  – access to education – improved career prospects; health of family improved for future	[4]	(2 x 2) 1 mark for each valid way second mark for each explanation or detail  Must have clear reference to future for credit
	(d)	proble	in <u>one</u> possible em with this type project.	eg cow dies/stolen, overgrazing by cow, cow fails to breed, low income from 'middlemen'. small scale only helps individual families, limited development/wealth/job creation. Credit for reliance on aid donor	[2]	1 mark for a valid problem second mark for detail or development

Question	Expected Answers	Mks	Rationale
(e) Suggest two ways in which development in LEDCs can be measured. Explain how each way measures development.	Content Guide: Could include: GNP/GDP per capita, purchasing power, literacy, girls in school, infant mortality, death rate, birth rate, fertility rate, life expectancy, calorie consumption, access to water.  Explanation should include how score/data indicates development eg high/low score.  eg high death rate shows poor health care, low literacy shows poor education provision.	[4]	(2 x 2) 1 mark for each valid way (term or definition) second mark for each explanation of how development is measured Full marks if two valid ways described and explained even if key terms not used (e.g. GNP per capita not used but clear ideas about wealth/income)
(f) CASE STUDY: An example of an economic activity in an LEDC. You need a relevant example.  • Name the LEDC.  • Name one example of an economic activity in your chosen LEDC.  • Describe in detail the location of the economic activity.  • Explain in detail why this is a good location for this example of an economic activity.	Case study will be marked using 3 levels  O marks Response does not address the requirements of the question.  Level 1 (1–3 marks) Demonstrates limited knowledge and understanding.  Gives a relevant LEDC, example and one basic idea.  Names a valid LEDC and Names a valid economic activity and Describes one feature of the location of the economic activity or gives a relevant location factor  Written work contains mistakes in spelling, punctuation and grammar, which sometimes hinder communication.	[8]	Named example could be primary eg a farm, secondary eg factory, tertiary eg a health clinic.  Max 2 marks, if no named example but relevant ideas about location factors  Max L2 (6 marks) for MEDC example with detail about location and location factors  1 / 2 marks if only names a valid LEDC and economic activity.  1 mark if only names a valid LEDC or economic activity.

Question	Expected Answers	Mks	Rationale
	Level 2 (4–6 marks)  Demonstrates sound knowledge and understanding.  Gives a relevant LEDC, example, one basic idea in each section, with one section developed with detail.		
	Names a valid LEDC  and  Names a valid economic activity  and  Describes one feature of the location of the economic activity  and  Explains the given location factor  and  Develops the description of the location features  or  Explains the location with valid detail or additional ideas		
	Written work is legible and spelling, punctuation and grammar are mostly accurate. Meaning is communicated clearly.  Level 3 (7–8 marks) Demonstrates thorough knowledge and understanding.  Gives a relevant LEDC and example with both sections developed with detail, including place specific detail.		Max 7 marks if both sections are developed but without any credible place-specific detail.
	Names a valid LEDC  and  Names a valid economic activity		

Question	Expected Answers	Mks	Rationale
	and Describes one feature of the location of the economic activity and Explains the given location factor		
	and Develops the description of the location features and Explains the location with valid detail or additional ideas with Some valid place-specific detail		
	Written work is legible and spelling, punctuation and grammar are accurate.  Meaning is communicated very clearly.		
	Content Guide:  Place specific detail could include company name or name of example given eg Brooke Bond Plantation and/or credible number data such as size of activity, number of workers and/or additional place names such as street, road numbers, settlement, region where activity is located.		
	Example could be primary eg a farm, secondary eg a factory, tertiary eg health clinic.		
	Location features could include named places, region of country, named features eg Brooke Bond Flower Plantation in Kenya highlands, near to Lake Naivasha.		
	Credit for global location of given LEDC e.g. Kenya is in East Africa		

Question	Expected Answers	Mks	Rationale
	Explanation of location factors could include references to: access to natural resources/raw materials; climatic factors; transport networks; power supplies; population thresholds/markets; government policies/aid project support. For Level 2/3 needs to be related to the stated economic activity eg Kenyan highlands have fertile soil for good crop yields, water from Lake used for irrigation.		
	Total	[25]	

Question			Expected Answers	Mks	Rationale	
4	(a)			•		
		(i)	Which country had the largest proportion of primary workers?	1 mark for Nepal.	[1]	
		(ii)	Which country had the largest proportion of tertiary workers?	1 mark for USA.	[1]	
		(iii)	What was the proportion of secondary workers in Brazil? Circle the correct answer	1 mark for 24%.	[1]	Credit if correct answer is indicated without a circle No marks if more than one answer given
	(b) Use Fig. 7 to explain two pieces of evidence which show that Nepal is the least economically developed country.		pieces of evidence th show that <u>Nepal</u> e e economically	Content Guide: High primary % = farmers growing own food/subsistence. Low secondary % = lack of industry/investment/ technology. Low Tertiary % = poor population/lack of demand/limited service provision in LEDC. credit for reference to line on Fig. 7 which indicates 'increasing level of economic development' Only credit reference to Brazil/USA percentages if clear comparison with Nepal (no credit for this as a developed point)	[4]	(2 x 2) 1 mark for each piece of evidence second mark for each explanation linked to primary/secondary/tertiary data credit for developed explanation(s) without reference to specific evidence/data

Question			Expected Answers	Mks	Rationale
(c)	Study <u>Fig. 8</u> a photograph of child workers in an LEDC in South America.				
	(i)	What type of worker are these child workers? Circle the correct answer.	1 mark for tertiary.	[1]	Credit if correct answer is indicated without a circle No marks if more than one answer given
	(ii)	Briefly explain your answer.	1 mark for providing a service or similar or not making/producing anything.	[1]	Credit correct idea even if (i) is incorrect
(d)	(d) Why are there lots of child workers in some LEDCs?		Content Guide: Poverty-children need to work to support families. Street children need to support themselves Lack of education opportunities, lack of employment legislation as per MEDCs. Child labour easier to exploit	[4]	1 mark per idea (4 x 1) credit for development of one/two ideas
(e)	Give two reasons to explain why multi-national companies choose to invest in LEDCs.		Content Guide: Access to cheap resources/raw materials, cheap labour, access to growing consumer markets, fewer planning/environmental restrictions, less competition from rivals. LEDC governments encourage/welcome MNC investment etc Explanation could compare to MEDC scenario and/or relate to drive for increased profits.	[4]	(2 x 2) 1 mark for each reason second mark for each explanation or detail No credit for three/four separate points
(f)	exan mult (MN0	E STUDY: An nple of a i-national company C) in a country. need a relevant nple.	Case study will be marked using 3 levels  O marks Response does not address the requirements of the question.	[8]	

Question	Expected Answers	Mks	Rationale
Name of multi-	Level 1 (1–3 marks)		Named MNC must be a credible example;
national company (MNC).	Demonstrates limited knowledge and understanding.		country can be an LEDC or an MEDC.
	Gives a relevant example, country and one basic		1/2 marks if only names a valid MNC and/or
Name of <u>one</u> country in which the MNC	idea.		country.
operates.	Names a valid MNC		Max L2 (6 marks) if no named country given
	and		but valid ideas about named MNC
	Names a valid country where the MNC operates		
Explain in detail the	and		Max L2 (6 marks) if named company is not an
advantages of the	Gives one advantage of the MNC		MNC but valid ideas about MNCs
MNC for the people	or		
who live in your chosen country.	Gives one disadvantage of the MNC		Max L2 (6 marks) if no named MNC given but valid ideas about MNCs
	Written work contains mistakes in spelling,		
Explain in detail the	punctuation and grammar, which sometimes hinder		
disadvantages of the	communication.		
MNC for the people who live in your	Level 2 (4–6 marks)		
chosen country.	Demonstrates sound knowledge and understanding.		
	Gives a relevant example, country, one basic idea in each section, with one section developed with detail.		
	Names a valid MNC		
	and		
	Names a valid country where the MNC operates and		
	Gives one advantage of the MNC		
	and		
	Gives one disadvantage of the MNC and		
	Explains the advantages or		
	Disadvantages with valid detail or additional ideas.		
	Written work is legible and spelling, punctuation and		

Question	Expected Answers	Mks	Rationale
	grammar are mostly accurate.		
	Meaning is communicated clearly.		
			Max 7 marks if both sections are developed
	Level 3 (7–8 marks)		but without any credible place-specific detail.
	Demonstrates thorough knowledge and		
	understanding.		
	Gives a relevant example and country with both		
	sections developed with detail, including place		
	specific detail.		
	Names a valid MNC		
	and		
	Names a valid country where the MNC operates		
	and		
	Gives one advantage of the MNC		
	or		
	Gives one disadvantage of the MNC		
	and		
	Explains the advantages <b>and</b> disadvantages with		
	valid detail or additional ideas.		
	with		
	Some valid place-specific detail		
	Written work is legible and spelling, punctuation and		
	grammar are accurate.		
	Meaning is communicated very clearly.		
	Content Guide:		
	Place specific detail could include credible number		
	data such as size of the MNC's operations, number		
	of workers or factories/outlets and/o information		
	about the MNC's products or services, and/or		
	additional place names such as street, road		
	numbers, settlement, region where MNC operations		
	are located.		

Question	Expected Answers	Mks	Rationale
Question	MNC must be a credible example; country can be an MEDC or LEDC.  Advantages could include: Job creation, facilities for workers eg schools, clinics pension funds, workers' incomes generate multiplier effect, investment by other companies, improved services or access to consumer goods, development of transport infrastructure.	1	Rationale
	Disadvantages could include: low wages; poor conditions; lack of employment opportunities eg top jobs to outsiders; pollution of environment; products/services not for locals; profits leave the country; MNC branch may close during times of economic hardship.		
	For L2/L3 will need to explain why points are advantages or disadvantages for the local people. Full credit for one well explained advantage and one well explained disadvantage.		
	Maximum 6 marks if no named country.  If only names a valid MNC/names a country = 1/2 marks.  Total	[25]	

OCR (Oxford Cambridge and RSA Examinations)
1 Hills Road
Cambridge
CB1 2EU

#### **OCR Customer Contact Centre**

#### 14 - 19 Qualifications (General)

Telephone: 01223 553998 Facsimile: 01223 552627

Email: general.qualifications@ocr.org.uk

#### www.ocr.org.uk

For staff training purposes and as part of our quality assurance programme your call may be recorded or monitored

Oxford Cambridge and RSA Examinations is a Company Limited by Guarantee Registered in England Registered Office; 1 Hills Road, Cambridge, CB1 2EU Registered Company Number: 3484466 OCR is an exempt Charity

OCR (Oxford Cambridge and RSA Examinations) Head office

Telephone: 01223 552552 Facsimile: 01223 552553

