

## **GCSE**

# **Geography B**

Unit **B563/02**: Key Geographical Themes (Higher Tier)

General Certificate of Secondary Education

Mark Scheme for June 2014

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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.

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## **Annotations**

Annotation	Meaning
BP	Blank Page – this annotation must be used on all blank pages within an answer booklet (structured or unstructured) and on each page of an additional object where there is no candidate response.
	Correct response
×	Incorrect response
NBOD	Benefit of the doubt not given
^	Information omitted
?	Unclear
	Open bracket
]	Close bracket
DEV	Development
EG	Example/reference
PLC	Relevant place detail
LI	Level 1
L2	Level 2
L3	Level 3
J	Just

**Subject-specific marking instructions** 

C	luesti	_•	Answer	Mark	Guidance
1	а	i	03(6,7,8) 86(6,7,8)	[1]	(✓) Accept any combination of third and sixth digit shown
		ii	A ridge of sand or shingle growing out from the coast	[1]	( <del>/</del> )
		iii	Change in direction of coastline Waves /swash approach shore at an angle Backwash returns at right angles / straight down beach Material / sand / shingle transported along coast Longshore drift is in the direction of prevailing wind Shallow / calm water helps deposition OR deposition by constructive waves If wind changes direction / secondary wind causes the end of the spit to curve Plants such as marram grass help to hold sand together	[4]	1 mark for each valid idea (✓)  No DEV required  Don't credit zigzag movement by itself Don't credit deposition by itself Don't credit longshore drift by itself Don't credit ref to source of material through erosion  Credit annotated diagram if appropriate
	b		Chalk or limestone are hard / resistant rocks / erode slowly ✓ so create a headland DEV Sand or clay are soft / less resistant rocks / erode easily ✓ so create a bay DEV Rock types are at right angles to the coast / discordant coastline /rows of hard and soft rock ✓ so create a series of headlands and bays DEV	[4]	4 x 1  1 mark for each valid idea (✓)  Credit development as shown (DEV)  Don't credit 'stick out'  Don't credit 'rocks', must be named rock type
	С		Hard rock on top of soft rock Less resistant rock is easily eroded Overhang of hard rock Undercutting Creates plunge pool Collapse of overhang/hard rock  Abrasion / corrasion Hydraulic action	[4]	4 x 1 1 mark for each valid idea (✓) 1 mark reserved for named process (abrasion or corrasion / hydraulic action / solution or corrosion) Go to 2 marks maximum for named processes No credit for attrition

Quest	ion	Answer	Mark	Guidance
		Corrosion / solution		No DEV required  Don't credit ref to gorge  Credit annotated diagram if appropriate
d	i	Flat The land beside / next to / surrounding/ on both sides of a river The land may be lower than river level/at same level as river Covered by alluvium / silt /sediment Area covered by the river when it floods / area liable to flood Edge of floodplain marked by bluffs Lower course / lower stage of a river	[3]	3 x 1 (✓)  1 mark for each detail of description  Don't accept 'near river'  Don't accept wide  Don't accept features of lower course eg levees, meanders, ox-bow lake  Don't accept fertile or human use
	ii	Erosion on outside/concave bank due to stronger/faster current  Deposition on inside/convex bank due to weaker/slower current  Undercutting on the outside bank/forms a river cliff  Deposition on the inside bank forms a point bar/slip-off slope/river beach  Caused by obstruction/hard rock in path of river	[4]	Erosion on outside/concave due to stronger/faster All three terms = 2 marks; Two terms = 1 mark  Deposition on inside/convex due to weaker/slower All three terms = 2 marks; Two terms = 1 mark  No credit for ox-bow lake formation  Credit annotated diagram if appropriate

Question	Answer	Mark	Guidance
е	Case study: river flooding	[9]	Case study will be marked using 3 levels:
	Indicative content River may be from any location or at any scale		Annotate with <b>L3</b> , <b>L2</b> or <b>L1</b> at the end of the answer Use <b>DEV</b> in the answer to show development
	Causes may be physical (such as heavy rain or snowmelt) or human activities (such as urbanisation, deforestation or poor river management)		Use <b>PLC</b> to indicate place specific detail at Level 3  Use <b>EG</b> to indicate example of river Example must be a name river
	Effects on people could be short-term or long-term, such as damage to buildings and settlements, disruption to transport links, financial losses for homes, businesses or farms, loss of food supplies, outbreak of disease, etc Effects could also be positive, eg fertile land, irrigation etc		Credit example wherever it appears in answer  Note carefully: Answer consistently meets the criteria for the level Award mark at top of level
	Do not credit ref to flood management or flood defences as an effect		Answer meets the criteria but with some inconsistency Award mark at <b>middle</b> of level
			Answer just meets the criteria for the level Award mark at <b>bottom</b> of level
	Level 3 (7–9 marks)  A comprehensive and place specific answer including well developed ideas which both explain the causes of flooding and its effects on people.		Level 3 = 7-9 marks Developed ideas from both question foci to give a comprehensive answer and place specific. Annotate place detail as PLC
			At least 3 developed ideas from both question foci and relevant place specific details credited at <b>middle or top</b> of level. Amount of relevant place specific detail determines credit at <b>middle or top</b> of level
			At least 3 developed ideas and named example which must include one developed idea from both question foci credited at <b>bottom</b> of level

Question	Answer	Mark	Guidance
	Level 2 (4–6 marks)  Demonstrates sound knowledge through developed ideas which explains the causes of flooding and/or its effects on people.  Level 1 (1–3 marks)  Demonstrates limited knowledge through simple / undeveloped ideas which explain the causes of flooding and/or its effects on people.		Level 2 = 4-6 marks Developed ideas from either question focus. Annotate each idea as DEV  At least 3 developed ideas and named example credited at top of level. Developed ideas can be for either question focus  Developed ideas but no named example / wrong named example credited up to middle of level One developed idea credited at bottom of level  Level 1 = 1-3 marks Simple ideas which are not developed from either question focus  At least 3 simple ideas and named example credited at top of level  Simple ideas but with no named example credited up to middle of level
	O marks  No evidence submitted or the response does not address the question.		Appropriate named example only credited at <b>bottom</b> of level. Annotate EG  No credit = 0 marks No example and irrelevant answer
	Spelling, punctuation and grammar (SPaG) are assessed using the separate marking grid on page 18	[3]	

C	uestion	Answer	Mark	Guidance
2	а	South to north / northwards / north Most routes are across N. Africa / Sahara TO S. Europe / Malta / Spain / Italy / France One sea route along west coast Migrating to / migrating through Agadez / Tripoli / Sabha / Adrar / Khartoum / Melilla / Ceuta	[3]	3 x 1 (✓)  Do not credit from Africa to Europe / between African settlements / from LEDCs to MEDCs
	b	Factors such as: Higher wages ✓ so they have more disposable income DEV Improved job opportunities ✓ so they have a better standard of living / quality of life DEV More doctors / better hospitals ✓ so they get better medical treatment DEV More education opportunities / university ✓ so they can gain higher qualifications DEV Better housing conditions ✓ so they have a more comfortable way of life DEV Better sanitation / clean water supply ✓ so there are less chance of catching disease DEV Family contacts at destination ✓ so it is easier to settle DEV More social / family support ✓ so they have a financial help if needed DEV Less affected by natural hazards ✓ so it is a safer environment DEV Stable government ✓ so they can live free from political unrest / oppression DEV To earn money to send home ✓ to support their families DEV	[4]	1 mark for each valid pull factor identified (✓)  1 mark for each valid explanation which must be coherently linked to the factor identified (DEV)  Note: the explanations given can relate to different pull factors. Do not credit the same development twice  Do not credit push factors

Question	Answer	Mark	Guidance
C	Ideas such as:  Migrants send money home to support families ✓ which means foreign exchange comes into country / country is wealthier DEV  Reduces overpopulation ✓ which means less demand for medical services / food supply DEV  Loss of young / economically active people ✓ leading to a lack of workers in rural areas DEV  Skilled workers migrate leading to skills shortage ✓ which impedes development DEV  Leaves high proportion of older people ✓ so less family members to care for older people DEV  Less unemployed ✓ more chance of remaining people in country getting jobs DEV  Less workers left in country ✓ so less tax paid to government DEV  Males more likely to migrate ✓ so gender imbalance/reduces birth rate DEV  Farm workers leave ✓ so less food produced DEV	[4]	<ul> <li>1 mark for each valid effect (✓)</li> <li>1 mark for each development which must be coherently linked to the effect identified (DEV)</li> <li>3 marks max for 'basic' ideas (i.e. without development), there must be development of at least one idea to gain 4 marks max.</li> <li>Do not credit effects on the destination country</li> </ul>

Question	Answer	Mark	Guidance
d	Ideas such as: Improved medical care/more hospitals /doctors /vaccinations ✓ so less people die from treatable diseases DEV Improved antenatal/postnatal care ✓ so mothers less likely to die in childbirth DEV Access to clean water ✓ so less likely to catch waterborne diseases DEV Improved sanitation ✓ less likely to get diseases such as cholera/typhoid DEV Better food supply / improved diet ✓ so less malnutrition/starvation DEV Education about reducing disease such as AIDS ✓ so condoms used DEV Aid projects ✓ which provide clean water to villages DEV	[4]	<ul> <li>1 mark for each valid reason (✓)</li> <li>1 mark for each valid development which must be coherently linked to the reason identified (DEV)</li> <li>3 marks max for 'basic' ideas (i.e. without development), there must be development of at least one idea to gain 4 marks max.</li> <li>Can credit up to 3 marks for one idea, e.g. More access to clean water ✓ means less likely to catch cholera DEV so more able to work and afford healthy food DEV</li> <li>Note: the explanations given can relate to different reasons. Do not credit the same development twice</li> </ul>
е	Too many <b>people</b> in a country / area For its resources to sustain / not enough <b>resources</b>	[2]	2 x 1 (✓)  Do not credit overcrowded  Accept food or water as alternative to resources
f	Ideas such as:  Overgrazing / over cultivation ✓ which leads to soil erosion / desertification DEV  Large demand for fuel wood ✓ which results in deforestation / loss of habitats DEV  Food shortages ✓ which causes famine / malnutrition DEV Insufficient schools / overcrowding in schools ✓ which leads to low literacy rates / lack of secondary education DEV Insufficient medical services / clinics ✓ which means lack of treatment of disease / not enough family planning advice / people die DEV  Lack of clean water / sanitation / waste disposal ✓ which causes widespread outbreaks of disease / cholera	[4]	2 x 2  1 mark for each valid effect (✓)  1 mark for each explanation which must be coherently linked to the effect identified (DEV)  Note: the explanations given can relate to different effects. Do not credit the same development twice  Don't accept poor standard of living/poor quality of life

Question	Answer	Mark	Guidance
	epidemic DEV Large-scale unemployment / underemployment ✓ so there is no money / low wages to support families DEV Insufficient housing ✓ results in growth of squatter settlements / street dwellers DEV Civil war ✓ as different groups fight over scarce resources DEV		
g	Case study: urban change	[9]	Case study will be marked using 3 levels:
	Indicative content Urban area may be in any location, a town or city area is acceptable  Development change could include housing, shopping, industrial, leisure or transport developments and social change  Explanations must focus on the changes which are described which include redevelopment, market, demand, social improvement, rebranding, encourage sustainable living		Annotate with L3, L2 or L1 at the end of the answer Use DEV in the answer to show development Use PLC to indicate place specific detail at Level 3 Use EG to indicate example of urban area  Credit example wherever it appears in answer  Can credit on-going development but not speculation about future or proposed development  Note carefully:  Answer consistently meets the criteria for the level Award mark at top of level  Answer meets the criteria but with some inconsistency Award mark at middle of level  Answer just meets the criteria for the level Award mark at bottom of level
	Level 3 (7–9 marks)  A comprehensive and place specific answer including well		Level 3 = 7-9 marks  Developed ideas from <b>both</b> question foci to give a
	developed ideas which both describe the changes and explain why they have happened.		comprehensive answer and place specific. Annotate place detail as PLC
			At least 3 developed ideas from both question foci and

Question	Answer	Mark	Guidance
	Level 2 (4–6 marks)  Demonstrates sound knowledge through developed ideas which describe the changes and/or explain why they have happened.		relevant place specific details credited at middle or top of level. Amount of relevant place specific detail determines credit at middle or top of level  At least 3 developed ideas and named example which must include one developed idea from both question foci credited at bottom of level  Level 2 = 4-6 marks  Developed ideas from either question focus. Annotate each idea as DEV  At least 3 developed ideas and named example credited at top of level. Developed ideas can be for either question focus  Developed ideas but no named example / wrong named example credited up to middle of level  One developed idea credited at bottom of level
	Level 1 (1–3 marks)  Demonstrates limited knowledge through simple / undeveloped ideas which describe the changes and/or explain why they have happened.		Level 1 = 1-3 marks Simple ideas which are not developed from either question focus  At least 3 simple ideas and named example credited at top of level  Simple ideas but with no named example credited up to middle of level  Appropriate named example only credited at bottom of level. Annotate EG
	No evidence submitted or the response does not address		No credit = 0 marks

(	Questi	ion	Answer	Mark	Guidance
			the question.		No example and irrelevant answer
			Spelling, punctuation and grammar (SPaG) are assessed using the separate marking grid on page 18	[3]	
3	а		Factories located in beet growing area Raw material is bulky to transport Weight-loss in production/raw material weighs seven times more than finished product	[2]	2 x 1 (✓)  Do not credit statement copied from below Fig 6
	b	i	East	[1]	( <b>∀</b> )
		ii	Large area / flat land / lot of space ✓ so it is easy to build a factory DEV	[4]	2 x 2
			Good road/rail links / dual carriageway / main road /A134 / A143 / A14 ✓ to bring raw materials to factory/ distribute		1 mark for each piece of map evidence (✓)
			product DEV Bury St Edmunds /town/ housing area nearby ✓ for labour force / workers DEV		1 mark for each valid reason which must be coherently linked to the map evidence identified (DEV)
			Local farms / Westfield farm / Hollow Road farm ✓ to supply raw material / sugar beet DEV River Lark /river/ lakes near site ✓ water for processing / cooling DEV		No credit for A35 or A30 (from key) No credit for transport by itself
			Away from housing areas ✓ so that noise /air pollution /visual pollution doesn't affect residents DEV		Don't accept pollution unless type specified
	С		Effects such as: Logging / clearing land ✓ leads to loss of vegetation DEV Loss of habitats ✓ causes species loss DEV	[4]	1 mark for each valid effect (✓)
			Threat to wildlife ecosystem ✓ potential to interrupt food chain DEV Soil erosion ✓ causes desertification DEV		1 mark for each valid development which must be coherently linked to the effect identified (DEV)
			Air pollution ✓ causes reduced air quality DEV Water pollution ✓ kills aquatic life DEV Increased greenhouse gases /named gas ✓ contribute to greenhouse effect /global warming DEV melting ice caps		3 marks max for 'basic' ideas (i.e. without development), there must be development of at least one idea to gain 4 marks max.

Quest	ion	Answer	Mark	Guidance
		/sea level change DEV Increased emissions /named gas ✓ causes acid rain DEV which damages vegetation DEV		Economic activity can be primary, secondary, tertiary or quaternary  Effects must relate to named economic activity, allow factory (except sugar factory)  A comprehensive account of one effect can be credited up to MAX 4 marks  No credit for identifying economic activity  If no named economic activity credit up to 2 marks MAX  Do not credit visual pollution or noise pollution unless linked to physical environment e.g. noise scares birds away
d	i	Greater increase in Vietnam / smaller increase in Canada / increased in both countries  Increases from 66 to 75 in Vietnam <b>and from</b> 77 or 78 to 81 in Canada OR Increases by 9 in Vietnam <b>and by</b> 3 or 4 in Canada OR Increase is 5 or 6 years more in Vietnam / less in Canada	[2]	2 x 1 (✓)  Credit 1 mark for <b>comparative</b> change Allow "only" as a comparative term  1 mark for supporting data  Do not credit ref to change in average income
	ii	Ideas such as: Improved diet / adequate food supply ✓ so less prone to malnutrition DEV Have better sanitation / clean or reliable water supply ✓ so less outbreak of disease / epidemics DEV More access to medical care / doctors / hospitals / medicines ✓ so more chance of being cured / recover from illness DEV Better housing ✓ which has electricity / piped water/ space DEV	[4]	<ul> <li>1 mark for each valid explanation (√)</li> <li>1 mark for each valid development which must be coherently linked to the effect identified (DEV)</li> <li>3 marks max for 'basic' ideas (i.e. without development), there must be development of at least one idea to gain 4 marks max.</li> </ul>

Question	Answer	Mark	Guidance
	Afford education ✓ so less likely to do hard manual or dangerous work / child labour DEV		Do not credit "have more money" or "can afford" on its own Do not credit ideas relating to decrease in average income
e	Ideas such as: Helps recovery from natural disaster / earthquake / cyclone /war/drought/famine ✓ by providing emergency supplies of food / tents / recovery experts DEV  Helps farmers grow more crops/increase food supply ✓ by providing new / appropriate technology & machinery/wells DEV  Improves healthcare ✓ by funding hospitals / training doctors DEV  Improves education ✓ by training teachers / building schools DEV  Improves sanitation ✓ by providing toilets / hygiene training /sewage disposal DEV  Helps industry to develop ✓ by developing new infrastructure / roads / power sources DEV  Helps local communities in local projects or self-help schemes ✓ by providing training/funding/expertise DEV  Improves status of women ✓ by increasing access to education/training DEV  Reduce birth rate/disease ✓ by family planning/provision of contraception DEV	[4]	2 x 2  1 mark for each valid advantage (✓)  1 mark for each valid development which must be coherently linked to the advantage identified (DEV)  Do not credit vague ideas such as "allows the country to develop", "people have more money" or "death rate goes down" or "raise standard of living" or "improves quality of life"  Do not credit vague ideas such as "buy food / water / medicines "

Question	Answer	Mark	Guidance
f	Case study: a multi-national company	[9]	Case study will be marked using 3 levels:
	Indicative content The company can operate in any country  Reasons for operating in many countries may focus on worldwide communications, transport, labour supply, markets, government policy, trade unions, health and safety/environmental laws, trade blocs  Effects could be on local people, the economy of the country or the environment and could be positive or negative.		Annotate with L3, L2 or L1 at the end of the answer Use DEV in the answer to show development Use PLC to indicate place specific detail at Level 3 Use EG to indicate example of MNC and country  Note carefully:  Answer consistently meets the criteria for the level Award mark at top of level  Answer meets the criteria but with some inconsistency Award mark at middle of level  Answer just meets the criteria for the level Award mark at bottom of level
	Level 3 (7–9 marks)  A comprehensive and place specific answer including well developed ideas which explain both the reasons for operating in many countries and the effects of the company in one country.		Credit reasons why MNC operates in many countries or just in the example country  Level 3 = 7-9 marks  Developed ideas from both question foci to give a comprehensive answer and place specific. Annotate place detail as PLC  At least 3 developed ideas from both question foci and relevant place specific details credited at middle or top of level. Amount of relevant place specific detail determines credit at middle or top of level  At least 3 developed ideas and named example which must include one developed idea from both question foci credited at bottom of level
	Level 2 (4–6 marks)		Level 2 = 4-6 marks

Question	Answer	Mark	Guidance
	Demonstrates sound knowledge through <b>developed</b> ideas which explain the reasons for operating in many countries <b>and/or</b> the effects of the company in one country.		<b>Developed</b> ideas from <b>either</b> question focus. Annotate each idea as DEV
			At least 3 developed ideas and named example credited at <b>top</b> of level. Developed ideas can be for either question focus
	Level 1 (1–3 marks)		Developed ideas but no named example of MNC <b>and</b> country / wrongly named example credited <b>up to middle</b> of level One developed idea credited at <b>bottom</b> of level
	Demonstrates limited knowledge through <b>simple / undeveloped</b> ideas which explain the reasons for operating in many countries <b>and/or</b> the effects of the company in one country.		Level 1 = 1-3 marks Simple ideas which are not developed from either question focus
	company in one country.		At least 3 simple ideas and named example credited at <b>top</b> of level
	O magazina		Simple ideas but with no named example of MNC and country/wrongly named example credited up to middle of level
	<b>0 marks</b> No evidence submitted or the response does not address the question.		Appropriate named example only credited at <b>bottom</b> of level. Annotate EG
			No credit = 0 marks No example and irrelevant answer
	Spelling, punctuation and grammar (SPaG) are assessed using the separate marking grid on page 18	[3]	

#### Awarding Spelling, Punctuation and Grammar to scripts with a scribe coversheet

- a. If a script has a **scribe cover sheet** it is vital to check which boxes are ticked and award as per the instructions and grid below:
- i. Assess the work for SPaG in accordance with the normal marking criteria. The initial assessment must be made as if the candidate had not used a scribe (or word processor) and was eligible for all the SPaG marks.
- ii. Check the cover sheet to see what has been dictated (or what facilities were disabled on the word processor) and therefore what proportion of marks is available to the candidate.
- iii. Convert the SPaG mark to reflect the correct proportion using the conversion table given below.

SPaG mark awarded	Mark if candidate eligible for one third (eg grammar only)	Mark if candidate eligible for two thirds (eg grammar and punctuation only)
0	0	0
1	0	1
2	1	1
3	1	2
4	1	3
5	2	3
6	2	4
7	2	5
8	3	5
9	3	6

- b. If a script has a **word processor cover sheet** attached to it the candidate **can** still access SPaG marks (see point a. above) unless the cover sheet states that the checking functionality is enabled, in which case no SPaG marks are available.
- c. If a script has a **word processor cover sheet AND** a **scribe cover sheet** attached to it, see point a. above.
- d. If you come across a typewritten script **without** a cover sheet please check with the OCR Special Requirements Team at <a href="mailto:specialrequirements@ocr.org.uk">specialrequirements@ocr.org.uk</a> who can check what access arrangements were agreed.

e. If the script has a **transcript**, **Oral Language Modifier**, **Sign Language Interpreter or a Practical Assistant cover sheet**, award SPaG as normal.

### Spelling, punctuation and grammar (SPaG) assessment grid

## High performance 3 marks

Candidates spell, punctuate and use rules of grammar with consistent accuracy and effective control of meaning in the context of the demands of the question. Where required, they use a wide range of specialist terms adeptly and with precision.

## Intermediate performance 2 marks

Candidates spell, punctuate and use rules of grammar with considerable accuracy and general control of meaning in the context of the demands of the question. Where required, they use a good range of specialist terms with facility.

## Threshold performance 1 mark

Candidates spell, punctuate and use rules of grammar with reasonable accuracy in the context of the demands of the question. Any errors do not hinder meaning in the response. Where required, they use a limited range of specialist terms appropriately.

#### 0 marks

0 marks should be awarded when:

The candidate writes nothing.

The candidate's response bears no relation to the question.

The candidate's achievement in SPaG does not reach the threshold performance level, for example errors in spelling, punctuation and grammar severely hinder meaning.

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