

Geography B

General Certificate of Secondary Education

Unit **B561/01**: Sustainable Decision Making (SDM)

Mark Scheme for January 2012

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Annotations



Annotation	Meaning
	Unclear
	Benefit of Doubt
	Cross
	Development
	Irrelevant Material
	Level 1
	Level 2
	Level 3
	Benefit of Doubt Not Given
	Tick
	Omission Mark
	Left Bracket
	Right Bracket

Question		Answer	Marks	Guidance
1	(a)	Rising limb Falling limb	1	Correct labels in correct boxes.
	(b)	30mm	1	
	(c)	2	1	
2	(a)	4	1	
	 	(b) Both drainage basins have steep slopes Drainage basin B has more forest than drainage basin A	2	
    	(c)	Moorland Steep High More	4	
3	(a)	Risk Disaster	2	1 correct 1 mark. 2 correct 2 marks.

Question		Answer	Marks	Guidance	
   	(b)	Town/factory/power station/houses/schools/shops etc. flooded/affected (max 2) Damage/destruction of town/factory/power station/houses/schools/shops etc. (max 2) Closure of town/factory/power station/houses/schools/shops etc. (max 2) Loss of life Loss of jobs Power cuts Infrastructure/roads/railway damaged/closed	4	Credit all valid ideas 2 marks max for what is flooded Up to 4 marks for impacts Indicative content: The school is flooded ✓ so the school has to be closed ✓ The power station gets flooded ✓ which means it has to close ✓ This means there are power cuts ✓ and job losses at the factory ✓	
4	(a)	(i)	Golf course	1	
		(ii)	Ideas related to position: Above the 500 year floodline/it will not flood Above the floodplain A long way from the river High up Out of hazard zone/potential flooding area	1	Credit all valid ideas NOT It is safe – needs to say safe from flooding

Question	Answer	Marks	Guidance
<p>(b)</p> 	<p>Level 3: (5-6 marks) Floodplain usage identified and developed reasons given for use of the floodplain. Written work is clearly legible and spelling, punctuation and grammar are accurate. Meaning is communicated very clearly.</p> <p>Level 2: (3-4 marks) Floodplain usage identified and simple/brief reasons given for use of the floodplain. Written work is legible and spelling, punctuation and grammar are mostly accurate. Meaning is communicated clearly.</p> <p>Level 1: (1-2 marks) Floodplain usage identified but no reasons given for use of floodplain. Written work contains mistakes in spelling, punctuation and grammar, which sometimes hinder communication.</p>	<p>6</p>	<p>Examiners are reminded Quality of Written Communication is integrated within the level descriptors. QWC will reflect how clearly geographical ideas and concepts are expressed, but it should not restrict candidates from reaching L2 and L3.</p> <p>Land use ideas taken from photographs or from own knowledge eg settlement/housing, farming, industrial use / power stations etc.</p> <p>Allow use of the river only e.g. water for washing as L1 To reach higher level must refer to floodplain</p> <p>Reasons will refer to ideas such as relief/access to river /fertility of soil/risk of flooding/ability to defend land/lack of availability of other land etc.</p>

Question		Answer	Marks	Guidance
5 	(a)	<p>Level 3: (5-6 marks) Reason(s) given with developed explanation of ideas. Written work is clearly legible and spelling, punctuation and grammar are accurate. Meaning is communicated very clearly.</p> <p>Level 2: (3-4 marks) Reason(s) given with simple explanation of ideas. Written work is legible and spelling, punctuation and grammar are mostly accurate. Meaning is communicated clearly.</p> <p>Level 1: (1-2 marks) Reason(s) for choice given no explanation of ideas or description of scheme. Written work contains mistakes in spelling, punctuation and grammar, which sometimes hinder communication.</p>	<p>5-6</p> <p>3-4</p> <p>1-2</p>	<p>For suggested content see table on Page 10. This is not intended to be definitive or an indication of level of achievement – individual answers are to be judged on the quality of their explanation.</p> <p>There are no wrong options – any option with appropriate explanation is acceptable.</p> <p>Please see page 7.</p>
Use  	(b)	<p>Gives disadvantages of the chosen option. Can give: 3x disadvantages or 2x disadvantages and 1 development point or 1x disadvantage and 2 developments</p>	3	<p>Point marked. Disadv Disadv Disadv</p> <p>Disadv → Dev Disadv</p> <p>Disadv → Dev → Dev</p>
Use  	(c)	<p>Suitable advantages of the other two options. 1 mark for advantage, one mark for development. Maximum two marks per advantage.</p>	4	<p>Point marked Adv → Dev Adv → Dev</p> <p>Any simple point cannot be double credited here e.g. Save lives/reduce damage/cheap – only give once unless has been developed into a developed or comparative statement</p>

Question		Answer	Marks	Guidance
Use  	(d)	Suggests why one of the rejected options is not sustainable. 2 x reasons and 1 development point or 1 x reason and 2 developments	3	Point marked. Reason → Dev Reason Reason → Dev → Dev 1 mark must be reserved for sustainability – this must be a development point

APPENDIX 1

	Advantages	Disadvantages
Option 1 Enforce zoning on the floodplain	<ul style="list-style-type: none"> • Cheap/er/low cost for undeveloped areas of the floodplain/Quick/Straight forward • Prevents/reduces future damage effectively • Some land use ideal for floodplain location • Can be enforced by law • More environmentally friendly etc • Etc. 	<ul style="list-style-type: none"> • River still floods/damages are not reduced • May reduce development in the area • Difficult to enforce • People may have to be relocated • Not appropriate in an already built up area • Etc.
Option 2 Improve monitoring and warning systems	<ul style="list-style-type: none"> • Cheap/er (to set up) • Reduces damage if warning is in sufficient time • Floodplain can continue to be used • Predicts floods • Environmentally friendly etc • Etc. 	<ul style="list-style-type: none"> • River still floods • Damage potential to property remains high • Costly in event of a flood • Requires accurate and continuous information • Human error/ system failure • Etc.
Option 3 Develop a large scale scheme to improve flood management in the drainage basin	<ul style="list-style-type: none"> • Stops flooding • Reduces flood losses • Protects property at risk • Dams may be multi-purpose • Security for local people/businesses • Etc. 	<ul style="list-style-type: none"> • High cost to build and maintain • Proper site needs to be available • Flood may be worse if defences fail • Aesthetic reasons • Possible damage to the environment/wildlife • Etc.

APPENDIX 2

Assessment Objectives Grid (includes QWC)

Question	AO1	AO2	AO3	Total
1a	1			1
1b			1	1
1c			1	1
2a			1	1
2b			2	2
2c	4			4
3a		2		2
3b	2	2		4
4ai	1			1
4aii		1		1
4b		4	2	6
5		7	9	16
Totals	8	16	16	40

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