

**Geography B**

General Certificate of Secondary Education

Unit **B561/02**: Sustainable Decision Making (SDM) (Higher Tier)

**Mark Scheme for January 2012**

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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.

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## Annotations

Annotation	Meaning
	Unclear
	Cross
	Development
	Level 1
	Level 2
	Level 3
	Level 4
	Tick
	Omission Mark
	Lifted Material
	Understanding of Sustainability
	Benefit of Doubt
	Irrelevant Material
	Development of Point

Question		Answer	Marks	Guidance
1	(a)	Basin A: 2 Basin B: 4	2	2 x 1 mark
	(b)	✓ Basin A – Steep sided/triangular/flashy/quickly rise and fall Basin B – Gently sloping/rounded/semi-circle/curve	2	Focus of the answer must be on the <b>shape</b> 2 x1 Description must include shape of both rising <b>and</b> falling limbs for 1 mark (for each hydrograph) NOT steady/narrow/tall/shallow
2	L3 L2 L1	<p><b>Basin A</b></p> <p><b>Level 3 (5-6 marks)</b> Excellent explanations why Basin A is <b>more</b> likely to flood than Basin B. Written work is legible and spelling, grammar and punctuation are accurate. Meaning is communicated very clearly.</p> <p><b>Level 2 (3-4 marks)</b> Sound explanations why Basin A is more likely to flood than Basin B. Written work is legible and spelling, grammar and punctuation are mostly accurate. Meaning is communicated with limited clarity.</p> <p><b>Level 1 (1-2 marks)</b> One or two factors described but not explained. Written work contains mistakes in spelling, grammar and punctuation, which sometimes hinder communication.</p> <p><b>Indicative content:</b> Open moorland grassland/fewer trees means little interception, water can get rapidly into river Steeper slopes, water runs off surface more rapidly than it can infiltrate, water gets rapidly into river Higher drainage density/more tributaries means more water enter the river more quickly Impermeable bedrock doesn't allow infiltration, causes surface run off rapidly into river Saturated land/thinner soils, less infiltration, more surface runoff rapidly into river</p>	6	<p>A <b>clear</b> comparison with <b>excellent</b> explanation must be made to achieve level 3</p> <p>Level 2 maximum 3 marks if only <b>ONE</b> drainage basin explained or no clear comparisons made. Clear comparisons must be in each explanation in Levels 2 and 3 for credit.</p> <p>Examiners to put final level achieved at the bottom right hand side at the end of the answer.</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>

Question		Answer	Marks	Guidance
		Can accept reverse answer		
3	L3 L2 L1	<p><b>Level 3 (5-6 marks)</b> Excellent explanations of the difference in the likely impact of flooding in the two areas. Written work is legible and spelling, grammar and punctuation are accurate. Meaning is communicated very clearly.</p> <p><b>Level 2 (3-4 marks)</b> Sound explanations of the impact of flooding and some comparison of the two areas. Written work is legible and spelling, grammar and punctuation are mostly accurate. Meaning is communicated with limited clarity.</p> <p><b>Level 1 (1-2 marks)</b> Description of the impact of flooding. Written work contains mistakes in spelling, grammar and punctuation, which sometimes hinder communication.</p> <p><b>Indicative Content</b> The impact of a flood in Area 2 would be greater than in Area 1. In Area 1 there are no large settlements so there would be little cost incurred if the area did flood. However, in Area 2 there is a large town, a power station and factories and the likely cost of damage caused by a flood in this area would be higher in terms of death and damage.</p>	6	<p>A <b>clear</b> comparison with <b>excellent</b> explanation must be made to achieve level 3.</p> <p>Level 2 maximum 3 marks if only <b>ONE</b> area is explained</p> <p>Examiners to put final level achieved at the bottom right hand side at the end of the answer.</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>

Question	Answer	Marks	Guidance Levels
4	<p>L3 <b>Level 3 (7-8 marks)</b> Excellent explanations why floodplains are used in spite of the flood risk. Refers to floodplain usage, <b>and also</b> to flood risk levels/flood return times. Written work is legible and spelling, grammar and punctuation are accurate. Meaning is communicated very clearly.</p> <p>L2 <b>Level 2 (4-6 marks)</b> Sound explanations why floodplains are used which may refer to flood risk. Written work is legible and spelling, grammar and punctuation are mostly accurate. Meaning is communicated with limited clarity.</p> <p>L1 <b>Level 1 (1-3 marks)</b> Describes how floodplains are used. Written work contains mistakes in spelling, grammar and punctuation, which sometimes hinder communication.</p> <p><b>Indicative Content</b>  Shortage of land to build on  Some uses depend on flooding e.g. rice farming  Power stations need water for cooling  Historical reasons  Cattle can be moved more easily  Golf courses on cheap land</p>	8	<p>To achieve level 3, an <b>excellent</b> explanation must be linked to a clear understanding of flood risk / flood return times which has only to be referred to once within the answer.</p> <p>A good quality explanation can be awarded 5 marks within level 2. To achieve full level 2 marks a second sound explanation is required. However, full level 2 marks can also be achieved with a range of sound explanations.</p> <p>Examiners to put final level achieved at the bottom right hand side at the end of the answer.</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>

Question	Answer	Marks	Guidance
5	<p>L4 L3 L2 L1</p> <p><b>Level 4 (13-16 marks)</b></p> <ul style="list-style-type: none"> <li>Well-developed reason(s) given as to why chosen option is more sustainable than each of the other options with a clear understanding of the term.</li> <li>Well-developed reasons given for disadvantages of chosen option.</li> <li>Written work is legible and spelling, grammar and punctuation are very accurate and meaning is clearly communicated. Good use of geographical terminology.</li> </ul> <p><b>Level 3 (9-12 marks)</b></p> <ul style="list-style-type: none"> <li>Developed reason(s) given as to why chosen option is more sustainable than each of the other options with understanding of the term shown.</li> <li>Developed reason(s) given for the disadvantages of the chosen option.</li> <li>Written work is legible and spelling, grammar and punctuation are accurate and meaning clearly communicated. Use of geographical terminology.</li> </ul> <p><b>Level 2 (5-8 marks)</b></p> <ul style="list-style-type: none"> <li>Mention made why chosen option is more sustainable than each of the others but with limited understanding of the term.</li> <li>One or two simple reasons given for disadvantages of chosen option.</li> <li>Written work is legible and spelling, grammar and punctuation are mostly accurate. Meaning is communicated with limited clarity.</li> </ul> <p><b>Level 1 (1-4 marks)</b></p> <ul style="list-style-type: none"> <li>Limited reference made to why chosen option is more sustainable than other options.</li> <li>Disadvantage of chosen option covered in a limited way.</li> <li>Written work contains mistakes in spelling, punctuation and grammar, which sometimes hinders communication.</li> </ul>	<p>13-16</p> <p>9-12</p> <p>5-8</p> <p>1-4</p>	<p>Accept any valid arguments about sustainability points – the level of development of the answer will indicate the level achieved</p> <p>There are NO wrong options – any option with appropriate explanation is acceptable.</p> <p>Examiners to put final level achieved at the bottom right hand side at the end of the answer.</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, L3 or L4.</p>

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