

Mark Scheme for June 2012

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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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Question	Answer	Mark	Guidance
1	<p>The assessment criteria 1.1 asks for one engineer to be named and an explanation of their achievements.</p> <p>(a) – award one mark for a name of the studied engineer</p> <p>(b) Band 1 Limited evidence – award one mark for a relevant point about achievements</p> <p>Band 2 Adequate evidence – up to two marks for including depth or breadth regarding some of their achievements.</p> <p>Band 3 Detailed evidence – up to four marks for including depth and breadth regarding most of their achievements.</p> <p>Depth: Expansion of a single achievement. ie, highlighting more than one point Breadth: Expansion involving other achievements, influences and benefits.</p>	<p>1 +</p> <p>Up to 1</p> <p>Up to 2</p> <p>Up to 4</p> <p>Total 5</p>	<p>For answers marked by levels of response: To determine the level – start at the highest level and work down until you reach the level that matches the answer To determine the mark within the level, refer to the chart in 10</p>
2	<p>Band 1 Limited explanation – award one mark for identifying an issue and one mark for a relevant point about issues</p> <p>Band 2 Adequate explanation – award up to four marks that considers at least two issues in depth or breadth in a response</p> <p>Band 3 Detailed explanation – award up to six marks that considers at least two issues related to social, human or economic effects giving depth and breadth in a response</p> <p>Depth: Expansion of a single issue. ie, highlighting more than one point Breadth: Expansion involving more than one issue relating to social, human or economic effects</p>	<p>1</p> <p>Up to 4</p> <p>Up to 6</p>	

Question		Answer	Mark	Guidance
3	(a) (b)	Band 1 Limited information – award one mark for stating a sector and one mark for a relevant point about the job role of a craft person	1	For answers marked by levels of response: To determine the level – start at the highest level and work down until you reach the level that matches the answer To determine the mark within the level , refer to the chart in 10
		Band 2 Adequate information – award one mark for stating a sector and up to three marks for a response with depth or breadth about the job role of a craft person	Up to 4	
		Band 3 Detailed information – award one mark for stating a sector and up to five marks for a response with depth and breadth about the job role of a craft person	Up to 6	
		Depth: Focussing on a single role in a single sector Breadth: Multiple roles in a single sector or, a single role in more than one sector		
4	(a) (b)	Band 1 Limited explanation – award one mark for identifying an environmental problem and one mark for a relevant point about how engineering can provide a solution	1	
		Band 2 Adequate explanation – award one mark for identifying an environmental problem and up to three marks that includes relevant supporting examples of how engineering can provide a solution	Up to 4	
		Band 3 Detailed explanation – award one mark for identifying an environmental problem and up to five marks for a response that gives clear and logical examples of how engineering can provide a solution	Up to 6	

Question		Answer	Mark	Guidance
5		Band 1 Limited explanation – award one mark for a basic definition of conservation and a second mark for defining conservation of resources in the context of engineering	1	For answers marked by levels of response: To determine the level – start at the highest level and work down until you reach the level that matches the answer To determine the mark within the level , refer to the chart in 10
		Band 2 Adequate explanation – award one mark for a basic definition of conservation of resources and up to three marks that involves relevant supporting examples of conservation of resources in engineering	Up to 4	
		Band 3 Detailed explanation – award one mark for a basic definition of conservation and up to five marks that involves clear and logical examples of conservation of resources in engineering	Up to 6	

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