## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

Cambridge International Advanced Subsidiary and Advanced Level

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## 9705 DESIGN AND TECHNOLOGY

9705/11 Paper 1, maximum raw mark 120

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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## Section A

1	(a)	e.g mo	ch suitable reason given 1 mark . available in large sizes re stable eaper	[1] [1]	[2]
	(b)	(i)	Appropriate cutting and smoothing processes described Details of appropriate tools, equipment and safety precautions	[0–3] [0–3]	[6]
		(ii)	Appropriate knock-down fittings identified and illustrated Appropriate use of knock-down fittings described Details of appropriate tools, equipment and safety precautions	[0-2] [0-2] [0-2]	[6]
	(	(iii)	Appropriate painting process described  Details of appropriate tools, equipment and safety precautions	[0–3] [0–3]	[6]
				[Total:	20]
2	(a)	e.g	ch appropriate advantage 1 mark . easier to store when not in use s likely to be damaged when not in use	[1] [1]	[2]
	(b)	Par Thi	torial view has been produced ts correctly assembled ckness of card shown on at least some parts ality of drawing	[1] [0–2] [1] [0–2]	[6]
	(c)	(i)	Appropriate method of marking out described Appropriate method of cutting out described Details of appropriate tools, equipment and safety precautions	[0-2] [0-2] [0-2]	[6]
		(ii)	Making of appropriate stencils described Appropriate use of stencils described Details of appropriate tools, equipment and safety precautions	[0-2] [0-2] [0-2]	[6]
				[Total:	20]

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P	age :		Mark Scheme Cambridge International AS/A Level – October/November 2014	970 AU	per
3	(a)	•		Sylver A. P.	Cambridg
		(ii)			[1] <b>[2]</b>
	(b)	On 3–4	propriate (consistent) scale used e piece development (net) drawn 4 sides correctly joined 7 sides correctly joined		-
	(c)	(i)	Appropriate cutting out and smoothing processes described Details of appropriate tools, equipment and safety precautions	[0- [0-	-
		(ii)	Appropriate bending process described Details of appropriate tools, equipment and safety precautions	[0- [0-	-
				[To	otal: 20]
			Section B		
4	(a)		planation of symbol the <b>e</b> mark indicates that the content (in litres) is an average quanti	[0- ty.	-2] <b>[2]</b>
	(b)		oblem one identified and described oblem two identified and described	-0] -0]	-
	(c)	Exp e.g add	planation of how problem one could be overcome planation of how problem two could be overcome in increase height of front dend pieces described by the piece of t	[0- [0-	-
	(d)	Situ	uation has been analysed and relevant issues / points identified ear and appropriate explanations of why issues / points are considere		-
			evant ecific examples / evidence used to support conclusions	-0] -0]	-
				[To	otal: 20]

Pa	age 4	Mark Scheme	Sy. 7.4	De	er
	<u>.g.</u>	Cambridge International AS/A Level – October/November 2014	970	Book	
5	(a)	Appropriate explanation of the purpose of feature X e.g. this feature is a pop-up mechanism and makes the design stand of back surface when the card is opened.	f the	DaCan	bridg
	(b)	Problem one identified and described Problem two identified and described e.g. text is missing from some instructions some instructions do not have any illustrations		[0–2] [0–2]	[4]
	(c)	Explanation of how problem one could be overcome Explanation of how problem two could be overcome e.g. appropriate text added to stages 3 and 5 appropriate illustrations added to stages 2, 4 and 8		[0-3] [0-3]	[6]
	(d)	Situation has been analysed and relevant issues / points identified Clear and appropriate explanations of why issues / points are considered relevant Specific examples / evidence used to support conclusions	∍d	[0-3] [0-3] [0-2]	[8]
				[Total:	20]
				-	•
6	(a)	Appropriate explanation of the purpose of feature X e.g. this is the part you hold and twist round to open and close the vice.		[0–2]	[2]
	(b)	Problem one identified and described Problem two identified and described e.g. no safety guards machine is not fixed to the floor		[0–2] [0–2]	[4]
	(c)	Explanation of how problem one could be overcome Explanation of how problem two could be overcome e.g. appropriate safety guard added machine is bolted to floor		[0–3] [0–3]	[6]
(d)	(d)	Situation has been analysed and relevant issues / points identified Clear and appropriate explanations of why issues / points are considered relevant Specific examples / evidence used to support conclusions		[0–3]	
	. ,		∍d		
				[0–3] [0–2]	[8]
				[Total:	20]

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F	age 5	Mark Scheme  Cambridge International AS/A Level – October/November 2014	970	ei
		Cambridge International AO/A Level - October/November 2014	310	1
7	(a)	One pre-conceived idea presented <b>OR</b>	N SI	non.
		The development and selection of a range of ideas into a single design proposal which would appear to work but lacks some technical detail <b>OR</b>	Syl. 7 Old 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G.
		The development and selection of a range of ideas into a single design proposal which would appear to technical detail to show that the propos solution would clearly work	sed [9–12]	
		Clarity and quality of sketching and explanatory notes Evaluation (reasons for selection)	[0-4] [0-4]	[20]
	(b)	As for part (a)		[20]
	(c)	As for part (a)		[20]
	(d)	The drawing will exhibit a reasonable standard of outcome and show so of the required design features  OR	ome [0–5]	
		The drawing will exhibit a good standard of outcome and show most of design features required to make the product function as intended <b>OR</b>	the [6–9]	
		The drawing will be completed to a high standard of outcome and fully show the design features required to make the product function as inter-	nded [10-14]	
		Some use made of colour and tone to enhance the visual impact of the drawing <b>OR</b>	[0-2]	
		Good use has been made of colour and tone to enhance the visual important drawing <b>OR</b>	act [3–4]	
		Very good use has been made of colour, tone and material representati to enhance the visual impact of the drawing	ion [5–6]	[20]
			[Total	l: 80]

Questions 8 and 9 as for Question 7

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