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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

9705 DESIGN AND TECHNOLOGY

9705/13

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 must be read in conjunction with the question papers and the report on the examination.

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CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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(0-3)

(0-3)

(0-2)

(0-2)

(0-2)

(0-2)

[Total: 20]

(1)

[6]

[6]

[6]

Syllabus

	- 3		GCE A/AS LEVEL – October/November 2010	9705	800	
1	e s S	a) Suitable sheet material named e.g. acrylic, polystyrene, aluminium stainless steel. Suitable reason for choice given e.g. surface finish is not required			ADaCan.	bridge
	(b) (i	Smo	ing out material described pothing edges of material described ails of tools, equipment and safety precautions (if neces	ssary)	(0-2) (0-2) (0-2)	[6]
	(ii	Fixir	ropriate method of fixing identified ng method described ails of tools, equipment and safety precautions (if nece	ssary)	(1) (0-3) (0-2)	[6]
	(iii	•	ad cutting described ails of tools, equipment and safety precautions (if neces	ssary)	(0-3) (0-3)	[6]
					[Total:	20]
2			shows two (or three) layers of material s correctly identified (MDF and veneer)		(1) (1)	[2]
	(b) (i	i) Mak	ing joint described		(0-3)	

Details of tools, equipment and safety precautions (if necessary)

Details of tools, equipment and safety precautions (if necessary)

Details of tools, equipment and safety precautions (if necessary)

(ii) Correct method identified

(iii) Making metal plate described

Joining frame to top described

e.g. mortise and tenon, dowel joint Method of making described

Mark Scheme: Teachers' version

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Syllabus

		J -	GCE A/AS LEVEL – October/November 2010	9705	Bar	
3	(a)	Base, ba Front Side flap Top and	ate scale used ack and two sides as fold over flap rect glue tabs		(1) (1) (1) (1)	bridge [6]
	(b)	e.g. polys Suitable	reason for choice given be vacuum formed (thermoplastic).		(1) (1)	[2]
	(c)	Deta (ii) Prod	cess of making former described ails of tools, equipment and safety precautions (if necess cess of vacuum forming described ails of tools, equipment and safety precautions (if necess	-,	(0-3) (0-3) (0-3) (0-3) [Total:	[6] [6] 20]
4	(a)	e. g. Ste through h	ce explained encil is a sheet of thin material with hole/s cut in it. pa hole to create design (1 mark) e is a shape cut out of thin sheet material which can			[2]
	(b)	Problem e.g. Prob	1 described 2 described blems related to centres of letters O and R falling out, p material, letters being very close to edge of stencil.	paper not being a	(0-2) (0-2)	[4]
	(c)	Explanat e.g. joini	tion of how problem 1 could be overcome tion of how problem 2 could be overcome ing centre of letters to outer parts, alternative material und letters.	used, increasing	(0-3) (0-3)	[6]
	(d)	Explanat	n has been analysed and relevant issues/points identified tion of why issues/points are considered relevant examples/evidence used to support conclusions	t.	(0-3) (0-3) (0-2) [Total:	[8] 20]

Mark Scheme: Teachers' version

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[Total: 20]

Page 4	Mark Scheme: Teachers' version	Syllabus	er
	GCE A/AS LEVEL – October/November 2010	9705	200

(a) Appropriate explanation related to quality and safety standardsA Lion Mark, B 'Declaration of Conformity' meets European Community 5 Standards, C British Standards Kite Mark, D Not suitable for very young children.

(b)	Problem 1 described Problem 2 described e.g. Problems related to nothing for child to hold on to (no handles) child could easily slide/fall off back of seat.	(0-2) (0-2)	[4]
(c)	Explanation of how problem 1 could be overcome Explanation of how problem 2 could be overcome e. g. suitable handle/s added, back rest added.	(0-3) (0-3)	[6]
(d)	Situation has been analysed and relevant issues/points identified Explanation of why issues/points are considered relevant Specific examples/evidence used to support conclusions	(0-3) (0-3) (0-3)	[8]
		[Total:	20]
(a)	Appropriate explanation e.g. water runs off more quickly, uses less material, not as heavy, more stable than solid timber	(0–2)	[2]
(b)	Problem 1 described Problem 2 described e.g. Related to strength and stability of structure	(0–2) (0–2)	[4]
(c)	Explanation of how problem 1 could be overcome Explanation of how problem 2 could be overcome e.g. Splaying legs, strengthening seat fixing where it joins legs.	(0-3) (0-3)	[6]
(d)	Situation has been analysed and relevant issues/points identified Explanation of why issues/points are considered relevant Specific examples/evidence used to support conclusions	(0-3) (0-3) (0-2)	[8]

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		GCE A/AS LEVEL – October/November 2010	9705	200	
(a)	OR The development of the develo	elopment and selection of a range of ideas into a singular appear to work but lacks some technical detail		(4–7)	hbride
	The development and selection of a range of ideas into a single design proposal that includes sufficient technical detail to show that the proposed solution would clearly work (8–1				
	-	nd quality of sketching and explanatory notes on (reasons for selection)		(0–3) (0–3)	[16]
(b)	As for pa	art (a)			[16]
(c)	As for pa	art (a)			[16]
(d)	As for pa	art (a)			[16]
(e)		ving will exhibit a reasonable standard of outcome and design features	I show some of the	e (0–3)	
	The drav	ving will exhibit a good standard of outcome and show required to make the product function as intended	most of the desig	n (4–7)	
		ving will be completed to a high standard of outcome eatures required to make the product function as intended	•	e (8–10)	
	OR	e made of colour and tone to enhance the visual impac	_	(0–2)	
	Good us drawing OR	e has been made of colour and tone to enhance the v	visual impact of the	e (3–4)	
		od use has been made of colour, tone and material the visual impact of the drawing	l representation to	o (5–6)	[16]

Questions 8 and 9 as for Question 7

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