UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

MARK SCHEME for the October/November 2009 question paper for the guidance of teachers

9705 DESIGN AND TECHNOLOGY

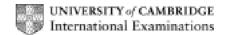
9705/11 Paper 11 (Written 1), maximum raw mark 120

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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	Pag	e 2	Mark Scheme: Teachers' version	Syllabus	Paper	
			GCE A/AS LEVEL – October/November 2009	9705	11	
1	(a)	(i)	Suitable sheet material named e.g. stainless steel, aluminium, mild steel Suitable reason for choice given e.g easy to clean, can withstand heat		(1) (1)	[2]
	(b)	(i)	Cutting and finishing described Details of tools, equipment and safety precautions (if app	oropriate)	(0-3) (0-3)	[6]
	(ii)	use of template and drilling process described Details of tools, equipment and safety precautions (if app	oropriate)	(0-3) (0-3)	[6]
	(i	ii)	Joining of method described Details of tools, equipment and safety precautions (if app	oropriate)	(0-3) (0-3)	[6]
					[Total:	20]
2	` ′	e.g.	table material named . plywood, MDF table reason for choice given		(1)	
			easily shaped, low cost, good surface for painting		(1)	[2]
	(b)	(i)	Cutting and finishing described Details of tools, equipment and safety precautions (if app	oropriate)	(0-3) (0-3)	[6]
	(ii)	Joining of method described Details of tools, equipment and safety precautions (if app	oropriate)	(0-3) (0-3)	[6]
	(i	ii)	Applying painted finish described Details of tools, equipment and safety precautions (if applying painted finish described	oropriate)	(0-3) (0-3)	[6]
					[Total:	20]
3	` ´ ((a) Suitable thickness stated e.g. 1 – 2 mm, 1000 – 2000 microns Suitable reason for choice given e.g. related to strength /stability of material and its ability to support weight of I 		(1) eaflets (1)	[2]	
	(b)	(i)	Appropriate slots shown in part B Method shows how given slots in part A slot into part B Slot and tab to fix base in place Clear description of method		(0-2) (1) (1) (0-2)	[6]
	(ii)	Making and using stencil described Details of tools, equipment and safety precautions		(0-3) (0-3)	[6]
	(c)		Appropriate scale used Front Sides Base Slots and tab		(1) (1) (0–2) (1) (1)	[6] 201
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Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	GCE A/AS LEVEL – October/November 2009	9705	11

Section B

4	(a)	Appropriate explanation e.g. related to improved stability and providing support for top frame	(0–2)	[2]
	(b)	Problem 1 described Problem 2 described e.g. problems related to poor stability and weak support for top	(0-2) (0-2)	[4]
	(c)	Explanation of how problem 1 could be overcome Explanation of how problem 2 could be overcome e.g. making bottom frame larger, adding additional support for top	(0-3) (0-3)	[6]
	(d)	Situation has been analysed and relevant issues / points identified Explanation of why issues / points are considered relevant Specific example or evidence used to support answer	(0-3) (0-3) (0-2)	[8]
			[Total:	20]
5	(a)	Appropriate explanation e.g. related to enabling packaging to hang from a display rack	(0–2)	[2]
	(b)	Problem 1 described Problem 2 described e.g. related to packaging not hanging straight and poor security for MP3 player	(0-2) (0-2)	[4]
	(c)	Explanation of how problem 1 could be overcome Explanation of how problem 2 could be overcome e.g. solutions related to moving position of hanging slot so that packaging will balance. Packaging is secured by gluing or shrink wrapping.	(0-3) (0-3)	[6]
	(d)	Situation has been analysed and relevant issues / points identified Explanation of why issues / points are considered relevant Specific example or evidence used to support answer	(0-3) (0-3) (0-2)	[8]
			[Total:	20]
6	(a)	Appropriate explanation e.g. enables parts to be assembled and disassembled	(0–2)	[2]
	(b)	Problem 1 described Problem 2 described e.g. problems related to small are for attaching top and rail, poor stability	(0–2) (0–2)	[4]

Pa	ge 4	Mark Scheme: Teachers' Version	Syllabus	Paper
		GCE A/AS LEVEL – October/November 2009	9705	11
(c)	Explanat e.g. solu	ion of how problem 1 could be overcome ion of how problem 2 could be overcome tions related to adding rails to attach / support top g design to give more surface area in contact with the		(0-3) (0-3) [6]
	Changing	e top		
(d)	Explanat	has been analysed and relevant issues / points identification of why issues / points are considered relevant example or evidence used to support answer	fied	(0-3) (0-3) (0-2) [8]
				[Total: 20]
		Section C		
7 (a)	OR	conceived idea presented		(0–3)
		elopment and selection of a range of ideas into a single which would appear to work but lacks some technical		(4–7)
	proposal	elopment and selection of a range of ideas into a single that includes sufficient technical details to show that the would clearly work	_	(8–10)
	Clarity ar	nd quality of sketching and explanatory notes on (reasons for selection)		(0–10) (0–3) (0–3) [16]
(b)	As for pa	rt (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 an s red design features	show some of	(0–3)
	The draw	ving will exhibit a good standard of outcome and show required to make the product function as intended	the design	(4–7)
	The draw	ving will be completed to a high standard of outcome a In features required to make the product function as in	•	(8–10)
	Some us drawing OR	e made of colour and tone to enhance the visual impa	ct of the	(0–2)
	Good use	e has been made of the colour and tone to enhance th f the drawing	e visual	(3–4)
	Very goo	d use has been made of colour, tone and material reputhe visual impact of the drawing	resentation to	(5–6) [16]
				[Total: 80]

Mark Scheme: Teachers' version

Syllabus

Paper

Questions 8 and 9 as for Question 7

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