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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2007 question paper

0445 DESIGN AND TECHNOLOGY

0445/01

Paper 1 (Design), maximum raw mark 50

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.

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

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



F	Page 2			Mark Scheme	Syllabus	Pa	aper	
				IGCSE – May/June 2007	0445		1	
(8	a)	move, quick to position, hygienic, etc. (no repeats of question).					[4]	
(i	b)						[4]	
(0	c)	Any suitable ideas. At least 3 different ideas for maximum marks. Pro rata if fewer.						
		Communication Simple drawings displaying a low standard or limited range of techniques						
		Clear drawings displaying a good standard and a range of techniques – shading/colour/annotation etc. High quality drawings using a wide range of techniques with clear annotation and detail.						
		Rather	tic designs more deta	s showing outlines only il, sensible solutions that could work	-tti	0-2 3-4	[40]	
1.	d)			s, good fitness for purpose, detailed cons th of the ideas. At least 3 evaluations		5-6	[12]	
,,	u,	each		ification. (1+1)	up to 2 marks	0-6 2	[8]	
(€	e)	Quality	1					
		Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly						
		all detail	il	2 or 3 overall dimensions only – 1	,	4		
			uction de			2		
		A simplistic approach showing little or no detail of construction to be used						
		Most constructional detail may be obvious from overall views or with some annotation						
		All constructional detail will be clear with good annotation and additional detail drawings as necessary					[12]	
(f	f)		•	materials stated. ons for choice.		2 2	[4]	
(9	g)	Suitable method stated. Good detailed description of process, including processes (3) and tools (2)			(0)	1		
					5	[6]		

Page 3		wark Scheme	Syllabus	Pa	per	
		IGCSE – May/June 2007	0445	-	1	
(a)	Accent	Accept any four suitable points – stable when opened, lightweight,				
(a)	•	c, easy to carry, etc. (no repeats of question)	ngritweight,	(1x4)	[4]	
	nygioni	riygienic, easy to carry, etc. (no repeats of question)				
(b)	Accent	drawings of any two suitable handles – string/o	cord cutout			
(0)	•	card, reinforced card, etc.	Sora, Catout,	(2x2)	[4]	
	twisted	(ZXZ)	ניין			
(c)	Any sui	table ideas. At least 3 different ideas for maximum	marks.			
` '	Pro rata	Pro rata if fewer.				
		Communication Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques – shading/colour/annotation etc. High quality drawings using a wide range of techniques with clear				
	•					
	shading					
	• .					
	annotat Suitabi	tion and detail.		5-6		
		tic designs showing outlines only		0-2		
	•	Rather more detail, sensible solutions that could work				
	Accurat	te solutions, good fitness for purpose, detailed constr	ruction	5-6	[12]	
(4)	Evoluet	tion of each of the ideas. At least 3 evaluations up	to 2 marks			
(d)	each	non of each of the ideas. At least 3 evaluations up	O to 2 marks	0-6		
		on and justification. (1+1)		2	[8]	
(e)	•	Quality of drawing				
		Poor line quality, proportions, little detail				
		Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly				
	all deta		Show clearly	4		
	Dimens					
	<u>.</u> .	Additional detail dimensions – 2		2		
		Construction details A simplistic approach showing little or no detail of construction to be				
	used	0-2				
		Most constructional detail may be obvious from overall views or with some annotation All constructional detail will be clear with good annotation and additional				
		F 6	[40]			
	uetan u	rawings as necessary		5-6	[12]	
(f)	Suitable	Suitable specific materials stated.				
.,		riate reasons for choice.		2	[4]	
(g)	Annron	riate logo representing fast food		3		
(9)		ommunication skills – colour/shading		2		
		riate attachment method		1	[6]	

Mark Scheme

Syllabus

Paper

[6] [50]

Page 3

Appropriate attachment method

Page		e 4	Mark Scheme	Syllabus	Pa	per		
				IGCSE – May/June 2007	0445	,	1	
(a	•	clean, no small parts, etc. (no repeats of question)					[4]	
(k	•						[4]	
(c		Any sui Pro rata Comm i						
		Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques – shading/colour/annotation etc. High quality drawings using a wide range of techniques with clear						
	annotation and detail. Suitability Simplistic designs showing outlines only					5-6 0-2		
		Rather	more detai	I, sensible solutions that could work I, good fitness for purpose, detailed cons	struction	3-4	[12]	
(c	•	each		n of the ideas. At least 3 evaluations fication. (1+1)	up to 2 marks	0-6 2	[8]	
(e		Poor lin Good lii High sta all detai	ne work, us andard thro il	proportions, little detail se of colour, proportions, some detail oughout with a range of techniques that 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2	it show clearly	1 2-3 4 2		
		A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with some annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary						
							[12]	
(f				materials stated. ns for choice.		2 2	[4]	
(0	•	Suitable method stated.				1		
		Good detailed description of process, including processes (3) and tools (2)		5	[6]			