MARK SCHEME for the October/November 2006 question paper

0445 DESIGN AND TECHNOLOGY

0445/02 Paper 2, maximum raw mark 60

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 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.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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

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UNIVERSITY of CAMBRIDGE International Examinations

	Page 2			Mark Scheme	Syllabus	Paper	
				IGCSE - OCT/NOV 2006		0445	2
1.	(a)	R40 Cen R20 R20 R60 R60	centr tre lin 0 cen 0 arc centr	e	Breakdown of marks 2 2 1 1 1 1 1 1 1	Marks on script 10	
	(b)	cons line	qualit	on (3) orientation (1)	3+1+1	5	
	(b)	(i)	Hex conc	60 side 60 side entric alignment ion above peak	2 2 1 1	6	
		(ii)	spac	elines for letters (2x1) ing (0-2) ble size (0-2)	2 2 2	6	
	(c)	suitable cross halving cut or slot and tab (0-2) two length positions			2 1	<u>3</u> 30	
2.	(a)			y construction 35 spacing +/-1mm(1)	2 1	3	
	(b)	(i)	Ø26 Shou	90 (1) + R17 (1) circle (2) body (1) Ø12 circle (2) ılder curve (1) arm (2) angle(1) ring wheel (2) shaft (1) angle (1)	2 5 4 4	15	
		(ii)	posit	ion (1) spacing (1)	2	2	
	(c)	(i)		ble chart/graph for types (0-2) represented correctly (0-2)	4	4	
		(ii)		ble chart/graph for rent periods (0-2) represented correctly (0-2)	4	4	
	(d)	tab ((0-2) s	slot (1)	2	<u>2</u>	

	Page 3			Mark Sch	Syllabus	Paper	
				IGCSE - OCT/I	0445	2	
3.	(a)	(i)		nt 140	1		
				0 long	1		
			top 10 deep side panel 80 wide		1		
					1		
				panel R20	1		
				m 10 deep	1		
				osition (2x1)	2		
				on lines on top	1		
			section lines on bottom		1	10	
			Section	on lines on rod (2x1)	2	12	
		(ii)	width	60	1		
			two r	ebates in top (2x1)	2		
			two r	ebates in bottom (2x1)	2		
			side	thickness	1		
			rod p	osition	1		
			rod t	nickness	1	8	
		(iii)	SQ 6	0 (1+1)	2		
		()		circle	1		
				inside circle	1		
				to left of top	1		
				en detail of rods in sides (2x1)	2		
				panel showing beyond top	1	8	
	(b)	mat	ch to j	projection	1		
			ect sy	mbol	1	2	
						30	
A	(a)	a	litu of	akatahing (0, 2)	2		
4.	(a)			sketching (0-2)	2	1	
		iwo	iueas	representing the company (0-2)	2	4	
	(b)	rem	aining	sides drawn accurately (6x1)	6		
	. ,			p 43 +/- 2mm (0-2)	2		
				(4x1)	4		
			flaps		4	16	
	(c)	posi	ition fo	or logo on correct face	1		
	(-)			iew correct orientation	1		
				ate size to fit space	1	3	
	(م)	007-	ootle	action/workable activition (1.2.)	0		
	(d)			tion/workable solution(1-2)	2	1	
		two	part jo	bint(1-2)	2	4	
	(e)	gua	lity of	rendering(1-3)	3	3	
	(-)	700	, 01			30	