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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2006 question paper

0445 DESIGN AND TECHNOLOGY

0445/02

Paper 2, maximum raw mark 60

These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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 minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

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

CIE is publishing the mark schemes for the May/June 2006 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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	IGCSE – May/June 2006	0445	

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	Page 1	Mark Scheme	Syllabu	8
		IGCSE – May/June 2006	0445	Day
Questio Numbe			Breakdown of marks	Marks on script
1 (a)	R60 qu comple	adrant curve ete hull	5 1	6
(b)		uction of semi ellipse and outline uction of R85 and line	4+1 2+3	10
(c)	mainsa pennar		2 2	4
(d)	mast co	orrect width (2) – height (1) top (1)	2+1 1	4
(e)	three le	etters drawn, guidelines, spacing	1+1+1	3
(f)	approp	riate use of colour	0-3	3
2 (a)(i)	recess Ø60 wh Ø10 sh swivel swivel M10 (1 bolt 25 Hex He Section	neel naft position 40 high standing proud 5 mm) 20 deep (1)	1 1 1 1 1 1+1 1 1	12
(ii)	wheel (shaft e	Ø60 x 28 wide vident nm gaps	1+1 1+1 1+1 1+1 1	10
(iii	i) wheel μ R30 cu Ø30 Ø20 Width 6		1+1 1 1 1 1	6
(b)		l match to drawing te symbol drawn	1 1	2

Page 2	Mark Scheme	Syllabu
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Pa	age 2 Mark Scheme			Syllabu 0445	. Par	
Question Number		IGCSE – May/June 2006		Breakdown of marks	Mail on script	ambr
3 (a)(i)	Plan le	ngth 140 (1) width 95 (1)		1+1	script	1
υ (α)(ι)		on height		1		
		ess of top		1		
	thickne	ess of two sides		1		
	•	match to projection used		1	6	
(ii)		cals correct spacing 3 x 2		6		
		ontals correct spacing 2 x 2		4		
	cup C			4 . 4		
		scale(1) accurate circle (1)		1+1 1+1		
		scale(1) accurate circle (1) t position on plan		1+1 1	15	
	Coneci	. position on plan		I	10	
(iii)	correct	projection of Ø80		1		
(,		projection of Ø40		1		
		of cup C 100 from inner base		1	3	
(iv)		ken from top surface intersection		1	_	
	projecte	ed to Ø30 circle +/- 1 mm		1	2	
/ b)	Cut out	t ar similar in side of tray for thumb				
(b)		t or similar in side of tray for thumb		2		
		of communication		2 2	4	
	quanty	of confindingation		2	7	30
						-
4	Genera	al				
		ing quality throughout	up to	3		
		imate scale		1		
		e orientation		2		
		ent roof heights	up to	3	40	
	3 parts	of house in correct position	up to	3	12	
	Accura	ocv.				
		e roof unequal length		1		
		e wall height front back different		2		
	•	oricks in garage wall (16)		1		
		y with post		1+1		
		f canopy continues over single storey		1		
		nine height		1		
	Rooflin	e of Mezzanine parallel to garage		1		
		ey in correct position		1		
		f garage continues over mezzanine		1		
	Single	storey correct size		1	12	
	D (- 9					
	Detail			4		
		on post		1		
		ers on large front window er on small front window		1 1		
		er on mezzanine		1		
		er on mezzanine part of door / shutter evident		1		
	•	part of door / shutter evident		1	6	
	10.1.0.	art of mildon / chance constant		•	-	30