MANA, P. BROC GAMBRIDGE COM

## 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.

Page 1	Mark Scheme	Syllabi
	IGCSE – May/June 2006	0445

Da	age 1	1 Mark Scheme		Syllabu	20	
ГС	ige i	IGCSE – May/		0445	900	
					1	3
Question Number				Breakdown of marks	Marks on script	Mb
1 (a)	R60 qu comple	adrant curve te hull		5 1	6	•
(b)		ction of semi ellipse and outli ction of R85 and line	ine	4+1 2+3	10	
(c)	mainsa pennar			2 2	4	
(d)	mast c	orrect width (2) – height (1) top (1)		2+1 1	4	
(e)	three le	tters drawn, guidelines, spac	ing	1+1+1	3	
(f)	approp	riate use of colour		0-3	3	30
2 (a)(i)	recess Ø60 wl Ø10 sh swivel M10 (1 bolt 25 Hex He Section	neel aft position 40 high standing proud 5 mm ) 20 deep (1)		1 1 1 1 1 1+1 1 1	12	
(ii)	shaft e	შ60 x 28 wide vident m gaps		1+1 1+1 1+1 1+1 1	10	
(iii)	wheel   R30 cu Ø30 Ø20 Width 6			1+1 1 1 1 1	6	
(b)		match to drawing e symbol drawn		1 1	2	30

Page 2	Mark Scheme	Syllabu
	IGCSE – May/June 2006	0445

Pa	age 2	Mark Scheme IGCSE – May/June 2006		Syllabu 0445	Day	
Question Number				Breakdown of marks	Mail on script	Indri
3 (a)(i)	Plan le	ength 140 (1) width 95 (1)		1+1	script	1
	elevation	on height		1		•
	thickne	ess of top		1		
		ess of two sides				
(!!)		I match to projection used		1	6	
(ii)		cals correct spacing 3 x 2		6		
		contals correct spacing 2 x 2		4		
	cup C	scale(1) accurate circle (1)		1+1		
		scale(1) accurate circle (1) scale(1) accurate circle (1)		1+1		
		et position on plan		1	15	
	001100	t position on pian		ı	10	
(iii)	correct	t projection of Ø80		1		
` ,		t projection of Ø40		1		
	Height	of cup C 100 from inner base		1	3	
(:)	ما جاء ام	. Communication		4		
(iv)		ken from top surface intersection		1 1	2	
	projecti	ted to Ø30 circle +/- 1 mm		I	2	
(b)	Cut-ou	t or similar in side of tray for thumb				
( <b>~</b> )		nd position		2		
		of communication		2	4	
	1 •					30
-	_					
4	Genera		40	0		
		ning quality throughout	up to	3		
		rimate scale e orientation		1		
		e onemation rent roof heights	up to	2 3		
		s of house in correct position	up to	3	12	
	o parto	of floude in correct position	up to	J	14	
	Accura	icy				
		e roof unequal length		1		
	_	e wall height front back different		2		
		bricks in garage wall (16)		.1		
		y with post		1+1		
		f canopy continues over single storey		1		
		nine height		1		
		ne of Mezzanine parallel to garage		1		
		ey in correct position		1		
		f garage continues over mezzanine		1	40	
	Single	storey correct size		1	12	
	Detail					
		on post		1		
		ters on large front window		1		
		ter on small front window		1		
		ter on mezzanine		1		
		part of door / shutter evident		1		
		part of window / shutter evident		1	6	
						30