UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

7048 CDT: DESIGN AND COMMUNICATION

7048/01 Paper 1, maximum raw mark 80

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.

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

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			GCE O LEVEL – October/November 2011	7048	01
1	(a) (i)	Any Hexa Any Slot	I view Hexagon drawn agon correct to size Slot drawn correct size and position agon and slot in correct orientation		1 1 1 1
					[5]
	(ii)	Fror Box Box Two Bacl	nt view It view projected from plan (candidate solution) width correct height correct inner lines in correct position It panel correct to height It panel correct width		1 1 1 1 1
					[6]
	(iii)	Widt Heig Box Bacl	view th – consistent with plan (regardless of size) tht – projected from front view (regardless of size) outer correct size to panel correct height to panel correct side (check projection)		1 1 1 1 1 [5]
					[16]
	Six Six Or Bo 9/1 Ba	surfa surfa e long ttom h 0 glue ck par	d answers in reasonable proportion ces for the box ces that match the width from hex top glue tab to hold box together exagon to tabs to hold bottom and top in place nel in correct position nes indicated on back panel		1 1 1 1 1 1
					[7]

	GCE O LEVEL – October/November 2011	7048	01
(c) (i)	Image of house used The word HAVEN included in the design Image and words combined (brought together) Ideas developed (progression)		1 1 1 1
			[4]
			[4]
(ii)	Final design accurately drawn in the box Design fills the space appropriately Colour used appropriately		1 1 1
			[3]
			[3]
			[30]

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Syllabus

Paper

	Page 4		Mark Scheme: Teachers' version	Syllabus	Paper
			GCE O LEVEL – October/November 2011	7048	01
2	C C T T T B	lsometric drawing (30 degrees left and right) Overall height of drawing (180 mm) Overall width of drawing (120 mm) Overall depth of drawing (80 mm) Tubular frame largely the correct size (6 mm) Two feet (2x1) Two uprights (2x1) Top Bottom rail Information board drawn Information board of correct size 120 x 96			1 1 1 1 2 2 1 1 1
					[13]
					[13]
					[.0]
	H V V C P B	lorizonta /ertical some servical some servical some servical some servical	If three dimensional sketch all section drawn section drawn section drawn section drawn square nead bolt ank and thread shown at with threads shown ng of the four parts to form an exploded view is (1), three parts (2) or four parts (3)		1 1 1 1 1 1 3
					[10]
	(c) (i	Clip Foar	fastens to the frame holds the foam board in position n board easily removed from the clip s developed (progression)		1 1 1 1
	/: :	:\ Thuo	a dimensional alcatab of the final decises		
	(ii	Fund	e dimensional sketch of the final design ction of the clip shown ur used to show an appropriate material		1 1 1
					[3]
					[7]
					[30]
					- -

_	raye 5		Syllabus	rapei
		GCE O LEVEL – October/November 2011	I 7048	01
3	(a) (i)	Design 1 Bottom circle 24 mm diameter Top circle 16 mm diameter Height to second circle – 16 Height to top point – 25 Sloping lines (awarded if circles incorrect)		1 1 1 1 1
	(ii)	Design 2 End view width in proportion End view height in proportion End view pitch in proportion Front view width and height in proportion Front view roof line to end view		1 1 1 1
				[5]
	(iii)	Design 3 Eye line and two VP's used Left hand side in good proportion Right hand side in good proportion Any sloping roof Centre of roof determined & drawn to corners		1 1 1 1
				[5]
				[15]
	(b) (i)	Idea plus notes/development of waterproof Suitable symbol that communicates waterproof Idea plus notes/development of quick assembly Suitable symbol that communicates quick assembly		1 1 1
				[4]
				F.#1
				[4]

Syllabus

Paper

1

1

1

1

1

1

[6]

[6]

[25]

Page 5

(ii) At least two tones/colour applied to house

Developed Waterproof symbol added

Acceptable quality of graphic

Developed Quick assembly symbol added

in correct circle

High quality graphic

		J -		GCE O LEVEL – October/November 2011	7048	01
4	(a)	(i)	AQL	JA written in capitals JA on correct surface and approximate size JA in isometric/perspective		1 1 1
						[3]
		(ii)		re added to correct surface re in the correct orientation		1 1
			Fou	waves in reasonable proportion		1
						[3]
						[6]
	(b)	Six Cor Exi	equanstructure	ded horizontally into any six divisions I divisions stion evident 5 vertical divisions extended accurately s projected to front view		1 1 1 1 1
						[5]
						[5]
	(c)	(i)	'Ope 'Ope Isom Rein L/H R/H	en' isometric tray – sides en' isometric tray – ends en' isometric tray – bottom netric tray in good proportions aforcing visible and tucked in handle handle e tabs visible (inside or outside)		1 1 1 1 1 1 1
						[8]
						[8]
		(ii)	Put for 5	g applied to tabs together mins – word or clock		1 1 1 1 1
						[6]
						[6]
						[25]

Syllabus

Paper

Page 7		ge 7	Mark Scheme: Teachers' version	Syllabus	Paper
			GCE O LEVEL – October/November 2011	7048	01
5	(a)	direction Length o direction Length o	f line – 50 mm of line – north f line – 80 mm of line – north east f line – 40 mm of line – south		1 1 1 1 1
					[6]
					[6]
	(b)	Diamono Circle ad Circle co DROP ad Correct s	correct size I correct size and position Ided rrect size and position		1 1 1 1 1 1 1
					[8]
					[8]
	(c)	Circle div Chord of Radius T At least f At least f Cross-ov Curve T	1 and T2 located on start circle vided into min 12 (half into 6) 1/1/2 th outer circle stepped off six times 1/T2 drawn four points (1) or six points (2) of T1 correctly plotted four points (1) or six points (2) of T2 correctly plotted ver of plots at quarter roll 1 joined with a smooth curve 2 joined with a smooth curve		1 1 1 1 2 2 1 1
					[11]
					[11]
					[25]

Page 8	Mark Scheme: Teachers' version	Syllabus	Paper
	GCE O LEVEL – October/November 2011	7048	01
One all s Col	e chart shown e/two correct segments segments correct lour used propriate labels/key to show types of disaster		1 1 1 1 1 [5]
Apr 2 po 4 po	and Y axis evident propriate scale points plotted correctly and joined points plotted correctly and joined propriate labels to axis		1 1 1 1 1 [5]
App 2 ba 4 ba	Bar chart (horizontal or vertical) propriate scale pars plotted correctly pars plotted correctly pars and Years to show fall in response times		1 1 1 1 1 [5]
Out Inno Inno Cor Out Out Fou Wo	ter ellipse drawn ter ellipse drawn to size ter ellipse drawn ter ellipse drawn ter ellipse drawn ter ellipse drawn to size the of outer ellipse to overlay tline of inner ellipse to overlay tline of inner ellipse to overlay tr boxes of approximate size and position/orientation tords added – correct name and position tur arrows of approximate size – correct position/orientat	ion	1 1 1 1 1 1 1 [10]