



Design & Technology (Resistant Materials)

General Certificate of Secondary Education GCSE 1956

General Certificate of Secondary Education (Short Course) GCSE 1056

Mark Schemes for the Components

June 2007

1956/1056/MS/R/07

Oxford Cambridge and RSA Examinations

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CONTENTS

General Certificate of Secondary Education Resistant Materials (1956)

General Certificate of Secondary Education (Short Course) Resistant Materials (1056)

MARK SCHEMES FOR THE UNITS

Unit	Content	Page
1056/01 1956/01	Paper 1 (Foundation)	1
1056/02 1956/02	Paper 2 (Higher)	5
1956/03	Paper 3 (Foundation)	9
1956/04	Paper 4 (Higher)	13
*	Grade Thresholds	19

Mark Scheme 1056/01, 1956/01 June 2007

1056 1956	5/01 5/01			Mark Scheme	June	2007
1	(a)	Tool NOT	used t sande	o make sides flat: accept plane or specific r/sanding/saws	smoothing or jack plane.	[1]
	(b)	(i)	Cram	ps are sash or bar.		[1]
		(ii)	Reas	on to prevent damage/bruising or to distribu	ite pressure.	[1]
		(iii)	Wate Liquio Wash	rproof glue due to likelihood that board will l ls in vegetables OK ing/cleaning OK	be immersed in water.	[1]
	(c)	Board Sand	d mad ler/Sai	e smooth by means of plane, glasspaper, so nding/Sandpaper OK	craper.	[1]
	(d)	No su Healt	urface th/hygi	finish due to risk of 'tasting' the food prepar ene risks OK	red, finish may chip.	[1]
	(e)	(i)	Hand Sketo If vag	hold design: holes grooves or rebate for fing h/note for 2 marks ue use Part ii to inform	gers. (0-2)	[2]
		(ii)	Two Saw Do N	named tools used to produce the handhold. OK OT accept marking out tools	(2 x 1)	[2]
2	(a)	Reas Malle	on for able (aluminium: easy to bend, easily kept clean X	n, corrosion resistant.	[1]
	(b)	Stage	ə 1	shape ends using a file/sanding disc/saw/s Router/miller OK	ander (1)	
		Stage	e 2	produce holes using drill, drilling machine,	brace, bit. (1)	
		Stage	e 3	bend metal using a hammer, mallet, former Vice OK NOT Clamp	r/anvil/jig (1)	
		Stage	e 4	clean metal using wire/steel wool, emery cl meths and cloth. Polish/metal polish	loth, wet and dry, buffer, (1)	[4]
	(c)	Jig m State	ust fit d or c	into a vice. ear from Sketch	V (1)	
		Hold If only If har	rod se y hand ndheld	curely. l held (1 mark) & additional support (2 marks)	S (0-2)	
		Leng End s Saw	ths cu stop (1 Guide	t accurately.) (1)	A (0-2)	[5]

1056/01

1956/01

3	(a)	Stage 1	marking out the shape.	(1)	
		Stage 2	cleaning/smoothing the edges of the acrylic.	(1)	
		Stage 3	polishing the edges of the acrylic on a polishing mop. Any reference to improving appearance OK	(1)	[3]
	(b)	Method of	heating: oven, strip heater, line bender	H (1)	
		former/mo Accept line If for wron	ould used to achieve shape e bender with integral former g bend (1 mark)	F (0-2)	
		method of If handhel Handheld	retention while plastic cools. d only (1mark) against former (2 marks)	R (0-2)	[5]
	(c)	Two reaso	ons for expense: more processes, more components		[1]
		greater ra	nge of materials, increased labour, longer to make		[1]
4	(a)	Template	used to mark out the ends, positions for handle, front and back	rods.	[1]
		Jig used to	o drill holes for rods, to saw rods/covers, handle to length.		
	(b)	Allow 2 jig Covers m Well comr Accept hir	is or 2 templates. ust pivot upwards using either a wooden/metal pin or woodscre municated practical idea. nges if connecting rail is evident	w (0-2)	[1] [2]
	(c)	Methods c	of producing the letters are either by engraving or application.		[1]
		Three stag	ges include details relating to setting up and machining of letters.		[1]
		Or details	included relating to setting up and machining vinyl etc		[1]
		Accept ref	ference to CAD as one stage only.		
	(d)	Reason fo	or polyurethane varnish is to protect from weather.		[1]
	(e)	Tests and	trials could be carried out by giving prototype to potential users	s. (1)	
		Feedback	obtained by means of questionnaire/survey/interview.	(1)	[2]

105 195	56/01 56/01	Mark Scheme	June	2007
5	(a)	Property of beech includes: tough, close grained, does not split easily, ta good finish.	kes a	[1]
		Hard wearing OK		
	(b)	Safety considerations include: no small/loose components, no sharp edg no nip points, enclosed firing area	es,	[1]
	(c)	Some form of strip or block to <u>support</u> the machine. The strip, block etc needs to be fixed so that it can move by means of sci nut and bolt, hinge	rews, S (0-2)	
		Details of materials and fittings used.	D (1)	[3]
	(d)	Base fitted to sides by means of groove, rebate or applied bead. Dowel/glue or Screwed = 1 mark if underneath Dowel/glue or Screwed = 0 mark if from side		[2]
		Accuracy of technical detail.	(0-2)	
		Pin and glue = 1 mark only. Glued only = 0 marks Biscuit = 0 marks		
	(e)	Firing mechanism will be a <u>spring.</u>	S (1)	
		Correct position of firing pin in relation to sides of machine. Firing Pin <u>Position</u>	P (1)	[3]
		Correct position of firing pin in relation to spring. <u>Retention</u> of Pin & Spring in use	R (1)	

Mark Scheme 1056/02, 1956/02 June 2007

June	2007

1056/02	
1956/02	

1	(a)	Template used to mark out the ends, positions for handle, front and back rods.	[1]
		Jig used to drill holes for rods, to saw rods/covers, handle to length.	
		Allow 2 jigs or 2 templates.	[1]
	(b)	Covers must pivot upwards using either a wooden/metal pin or woodscrew Well communicated practical idea. Accept hinges if connecting rail is evident	[2]
	(c)	Methods of producing the letters are either by engraving or application.	[1]
		Three stages include details relating to setting up and machining of engraved letters.	[1]
		Or details included relating to setting up and machining vinyl etc	
		Accept reference to CAD as one stage only.	[1]
	(d)	Reason for polyurethane varnish is to protect from weather.	[1]
	(e)	Tests and trials could be carried out by giving prototype to potential users. (1)	
		Feedback obtained by means of questionnaire/survey/interview. (1)	[2]
2	(a)	Property of beech includes: tough, close grained, does not split easily,	[1]
		Hard wearing OK	[1]
	(b)	Safety considerations include: no small/loose components, no sharp edges, no nip points, enclosed firing area	[1]
	(c)	Some form of strip or block to <u>support</u> the machine. The strip, block etc needs to be fixed so that it can move by means of screws, nut and bolt, hinge S (0-2)	
		Details of materials and fittings used. D (1)	[3]
	(d)	Base fitted to sides by means of groove, rebate or applied bead. Dowel/glue or Screwed = 1 mark if underneath Dowel/glue or Screwed = 0 mark if from side	[2]
		Accuracy of technical detail. (0-2) Pin and glue = 1 mark only. Glued only = 0 marks Biscuit = 0 marks	
	(e)	Firing mechanism will be a <u>spring.</u> S (1)	
		Correct position of firing pin in relation to sides of machine.P(1)Firing Pin Position	[3]
		Correct position of firing pin in relation to spring.R(1)Retention of Pin & spring in use	

3 (a) Aluminium suitable due to lightweight and resistance to corrosion, self finishing

 (1)
 Accept 'light'

Or

Steel suitable due to relatively cheap cost, durable metal, hard wearing (1) [1]

(b) Two items of information include: location, number of shoes to store, sizes of [1] shoes, costs of manufacture, tooling, potential product run.

Only one answer referring to shoe size is acceptable [1]

(c) Use of a screw or bolt through end strip with a modification inside end of tubular rail to provide thread for screw or bolt.

Some form of overlapping joint using slots.

The use of a 'lug' attached to the end strip with the tube connected and secured by means of a pin.

Method of fastening, accuracy (0-3) [3]

(d) <u>Practical</u> design using different diameter tube to slide inside each other. P(0-2)If extending with a replica principle = 0

Accuracy of <u>details</u> of materials and fittings including locking/extension stops **D**(0-1)

Rigidity

R (1)

[4]

1056/02 1956/02		02 02	Mark Scheme Ju		
	4 (a)		Two advantages of vacuum formed tray: each tube of paint has its ow storage space, can take up less space/fit more tubes, quicker/easier t	n fitted o acture in	[1]
			quantity, easier to clean.		[1]
			Quicker/easier/cheaper – must be qualified		
		(b)	Ergonomics: visual layout of tubes in plastic tray, access enabling use up tubes easily, general point relating to easing of edges/corners etc	er to pick	[1]
		(c)	Recognised 'catch' includes: magnetic catch, toggle catch or hasp and staple, velcro	R (0-2)	
			Correct positioning in relation to lid and sides.	P (1)	[3]
		(d)	Brushes stored securely in grooves or holes with some form of retenti bristles not likely to be damaged. Method of storage allows for ease or $\mathbf{S}(0-2)$	on and f access.	
			Sizes allowed for	S (0-1)	
			Details of materials and any fittings used.	D (0-1)	[4]
:	5	(a)	Method of <u>support:</u> torch body is 'sandwiched' between the sides of th Method must include practical details.	e stand. S (0-3)	
			Method of <u>tilt</u> includes use of pivot pins and locking by means of nuts bolts/screws.	and T(0-2)	
			Method must allow for guick and easy release from stand.	Q (0-1)	
			Allow alternative practical designs that do not use the given outline.		[6]
		(b)	Details of any appropriate control system/manufacturing process.	CS (0-3)	
			Accuracy of technical details.	TD (0-1)	[4]

Mark Scheme 1956/03 June 2007

1	(a)	(i)	Acrylic polycarbonate polystyrene			
•	(u)	(1)			[1]	
		(ii)	Easy to work with/shape, not difficult to fix/bond together, diffection colours available, won't scratch the glass, guality edge.	erent		
	(D)	Any boai	appropriate named saw, file, disc sander, vice, bench nook/sav	ving Accept		
		ban	d saw, wet and dry) 1 + 1.	•	[0]	
	(c)	Bon	ding/gluing, tensol adhesive, acrylic cement, rivets, machine sc	rew &	[2]	
	. ,	nut,	self tapping screws (not screwing).		[1]	
	(d)	Bato	ch production.		[1]	
	(e)	Tem	nplate identified = 1 use/suitable material/drawing round ie detai	l = 1.	[2]	
	(f)	Rou	nded edges/ends, finger grips, textured surface for grip, additio	nal	[0]	
		mau	enal to stop hand slipping forward when in use. Solution = 1 de		[2]	
				Total	ניטן	
2	(a)	Housi any h	ng shown in correct position = 2 limited detail/accuracy = 1 (account output).	cept	[2]	
	(b)	Knock	down fitting, stub mortise and tenons screwed, glued and pinn	ed,		
		dowel	joints, biscuit, butt joint (needs pins/screwed and glue) (Not /finger joint)		[1]	
	(c)	1 Try	square, marking gauge (accept mortise gauge) marking knife,			
		pencil	l, ruler, tape measure.		[1]	
		2 Ten	on saw, dovetail saw, backsaw, chisel, mallet, router, power ro	uter.		
		(Do n	ot accept file/saw).		[1]	
	(d)	We ar	re looking for "cutting out" not "marking out". cutting out as a pair	i r ,	[4]	
		use of	f jig, guide, CNC router, CAM.		[1]	
	(e)	Size o	of books, different size of books, number of books, where it is to	be		
		down/	/relocation needs. Suitable materials if qualified.			
		Any v	alid 2 x 1.		[1] [1]	
					[1]	
	(f)	Lippin	ng on back of shelves, thin board backing, height adjustment of es, ability to be dismantled/flat packed. extendable/expandable			
		desigi	n, modular design. Idea = 1 detail/explanation = 1.		[2]	
			1	otal	[10]	

10

1956/03		Mark Scheme		June 2007	
	3	(a)	Stee	el, stainless steel, brass, aluminium. (not copper).	[1]
		(b)	Eas accu	e of drilling, easier to hold/secure, increased safety, likely to be mou urate.	e [2]
		(c)	(i)	Tap (not tap holder). Max 1 mark if candidate understands but fai specifically identify correct tools.	ls to [1]
			(ii)	Die (not die holder). Centre lathe. Max 1 mark if candidate understands but fails to specifically identify correct tools.	[1]
		(d)	Cup the p	, pad, increased surface area. 1 for idea 1 for potential success eg pad fall off? Details should be provided	will [2]
		(e)	Ben wing Idea	t over at 90°, Tommy bar, flattened "thumb grip", thread extended a g nut/lock nut added, knurled surface, plastic coated for grip. a = 1 + details for up to 2 more marks.	nd [3]
				т	otal [10]
	4	(a)	Foc	us CAD <u>not C</u> AM	
			Impi the o for e facil proc	roved speed of designing, ease of making changes and adjustment design, cost effective in certain situations, CAD provides virtual ima early 3D evaluation, ease of storage. Design can take place at differ ities, encourages diversity, total compatibility of manufacturing easses to product. Electronic data easily transferred.	s to ge rent
			Note	e: one design – multiple make.	
			2 x 2	1 mark for different points.	[2]
		(b)	Spe does proc out/o	ed of production, quality of finish/requires minimal finishing, work piss not need securing, multiple items can be cut at same time ie batch duction, machinery can be used for other materials, accuracy of cutt consistency.	ece ר ing
			One 2 x ^	word answers accepted if appropriate 1 mark for different points.	[2]
		(c)	Initia safe	al set up costs for machine, staff need additional training, different ty requirements, fumes as opposed to dust.	[1]
		(d)	Proc Euro mov Euro Mar	duct meets all provisions of relevant legislation implementing certain opean Directives/access to European market to sell products/free rement of product within Europe. Conformité European. Standards o opean acceptable on its own. (Europe/standard/legal). k for product meeting certain European legal standards.	י סר [1]
		(e)	Proc total 0-2 (duct tracking/quality control/stock control/fast till activation and ling/re-ordering of stock-materials/accuracy in manufacturing/retaili detail & understanding.	ng. [2]
		(f)	Cus	tomer involvement, collection of waste products, viability of process	s, [2]

purity of batch for recycling/costs incurred needing to be met or passed on. Taken time/time consuming Difficult to find locations for some products to be recycled. Finding space to <u>store</u> the items Distance to recycling points

Any 2 x 1 mark for different points.

		Total	[10]
5	(a)	Welding, accept Brazing.	[1]
	(b)	Scroll.	[1]
	(c)	Triangulation support, stop gate sagging, strengthening frame, stopping skewing of frame, brace.	[1]
	(d)	Decorative finial/cap, protection of end grain/water ingress/insect infestation/excessive drying out with sun/wind. (Not safety)	[1]
	(e)	Protection/stop rusting, aesthetic improvements, change colour to suit door/window/environment etc 2 x 1 mark per different point.	[1] [1]
	(f)	 Hung on right hand post Appropriate hinge shown /described Suitable latch shown Details shown /described (4 x 1) 	[4]
		Total	[10]
		Total marks	[50]

Mark Scheme 1956/04 June 2007

[2]

[2]

[1]

[2]

1 (a) Focus CAD <u>not</u>CAM

Improved speed of designing, ease of making changes and adjustments to the design, cost effective in certain situations, CAD provides virtual image for early 3D evaluation, ease of storage. Design can take place at different facilities, encourages diversity, total compatibility of manufacturing processes to product. Electronic data easily transferred.

Note: one design – multiple make.

2 x 1 mark for different points.

(b) Speed of production, quality of finish/requires minimal finishing, work piece does not need securing, multiple items can be cut at same time ie batch production, machinery can be used for other materials, accuracy of cutting out/consistency.

One word answers accepted if appropriate 2 x 1 mark for different points.

- (c) Initial set up costs for machine, staff need additional training, different safety requirements, fumes as opposed to dust.
- (d) Product meets all provisions of relevant legislation implementing certain European Directives/access to European market to sell products/free movement of product within Europe. Conformité European. Standards or European acceptable on its own. (Europe/standard/legal).
 Mark for product meeting certain European legal standards. [1]
- (e) Product tracking/quality control/stock control/fast till activation and totalling/re-ordering of stock-materials/accuracy in manufacturing/retailing.
 0-2 detail & understanding.
- (f) Customer involvement, collection of waste products, viability of process, purity of batch for recycling/costs incurred needing to be met or passed on. Taken time/time consuming Difficult to find locations for some products to be recycled. Finding space to <u>store</u> the items Distance to recycling points

Any 2 x 1 mark for different points.

Total [10]

2

3

		Total	[10]
	 Details of the method used No use of pre – manufactured components 	(5x1)	[5]
(e)	 Are the door/s held when in the closed position (does Are they secure? Prevented from swinging inwards? 	it work?)	
	(ii) Difficulty in matching up at later date, style/size/mate available/not suitable, suppliers/retailers do not alway replenish stock/too many in pack (any combination of of components, not having the right tools.	rial not ys stock - f this), quality	[1]
(d)	(i) Readily available, do not have to make them, available styles/sizes/shapes, cost effective, save time (money manufacture. Consistency of components.	ole in range of /) over the	[1]
(c)	Steel rusts, will not last long, will need replacing, rust streak wood, hinge will not function correctly when rusty, noisy whe	s mark the an rusty.	[1]
(b)	Mortice & Tenon (through/stopped/haunched/stub/stump - a Dowelled, halving joint.	ll acceptable)	[1]
(a)	Larch, Douglas Fir (Columbian pine/Oregon pine, Yellow/Re (Northern or Scots pine, Sitka Spruce, Sequoia Pine/redwoo pine/Californian Pine. Pine, pitch Pine, White Deal/Whitewoo Pine/Western Red Cedar/Hemlock/Cedar (Do not reward Ye	⊧d deal od/red od/Parana ew)	[1]
		Total	[10]
	 Details shown /described 	(4 x 1)	[4]
(f)	 Hung on right hand post Appropriate hinge shown /described Suitable latch shown 		
(e)	Protection/stop rusting, aesthetic improvements, change color door/window/environment etc 2 x 1 mark per different point.	ur to suit	[1] [1]
(a)	infestation/excessive drying out with sun/wind. (Not safety)		[1]
(4)	skewing of frame, brace.	voet	[1]
(c)	Triangulation support, stop gate sagging, strengthening frame	, stopping	
(u) (b)	Scroll.		[1]
(a)	Welding. Accept Brazing.		[1]

1956/04			Mark Scheme	June 2007
4	(a)	(i)	Design 2 would be cheaper to produce. (Only one correct answer	·) [1]
		(ii)	Reference to the 1.5mm thick aluminium frame: only one mould/former would be required, components are the same so no mix ups during assembly, less work to produce the mould(s), 0-2 for understanding and detail.) [2]
	(b)	F Sui alum weldi	table method of fixing the frame to base A. (1.5 mm to 4mm nium). Epoxy resin, rivet, machine screw (nut), self tapping screw, ng	
		Meth	od = 1 Details of the proposed solution = 1	
		B Su plywo	itable method of fixing base A to base B (4mm aluminium to 15mm bod). Wood screw, machine screw, rivet.	
		Meth	od = 1 Will it rotate? = 1	
		S Wa	sher or spacer between base A and base $B_{-} = 1$	[5]
	(c)	Meth qualit	od of stopping (will it work) – 1 mark y of solution - 1 mark	
		Crim sawir mach	bing/bending of part of the frame, indentation, details of ng/clipping/bending, addition of "lump" to form a stop ie rivets head, nine screw.	[2]
			То	tal [10]
5	(a)	(i)	 It needs to withstand rough treatment in factory environment. 	
			 It needs to withstand a certain amount of mistreatment. It needs to be robust enough to resist forced entry to key box. 	
			Any appropriate "extended and valid" reasoning = 1 mark.	[1]
		(ii)	Speedy removal in working environment.	
			 Avoid confusion/mix up with keys. Should not affect efficiency of workplace. Avoids worker frustrations. 	
			 Any appropriate "extended and valid" reasoning = 1 mark. 	[1]
		(iii)	Any appropriate specification point which is "extended and valid" reasoning = 1 mark. (Question 5 is an A* question and should get more demanding). Candidates need to work for the marks now ie Must be cheap to make not acceptable. Not referenced to wall fixings.	
			 Ensure correct keys easily identified. Easy to open close the key box. Indication of key usage. 	[1]

1956/04

Mark Scheme

		 Indication that key box is open/closed. Secure method of key handing. Restricted positioning of keys/certain keys. Appropriate colour to easily locate the key box. Possible alarmed if tampered with. Possible time lock to coincide with working hours in factory.	/.	[1]
(b)	(i)	Must make operation of the key easier for a disabled or ele person; improved surface area/better grip/ wider area to he	derly old.	
		Is it easy to attach? Is it easy to detach? Must have evidence to support this.		
		Reference made to production in quantity reflected in designation (2	gn. Ix1)	[4]
(b)	(ii)	<u>Understanding</u> required for reward of marks. Must be relat their design and have appropriate materials selected and associated manufacturing process identified.	ed to	
		If just process identified ie Injection molding no marks	0 -2.	[2]
			Total	[10]

Total marks [50]

General Certificate of Secondary Education Design & Technology: Resistant Materials (Short Course) 1056 June 2007 Assessment Series

Component Threshold Marks

Component	Max Mark	Α	В	С	D	Е	F	G
Paper 1	50			30	25	21	17	13
Paper 2	50	29	24	20	15			
Coursework	105	81	69	57	46	35	25	15

Syllabus Options

Foundation Tier

	Max Mark	A*	Α	В	С	D	Ε	F	G
Overall Threshold Marks	175				90	76	62	49	36
Percentage in Grade					20.9	13.9	23.2	16.3	12.4
Cumulative Percentage in Grade					20.9	34.9	58.1	74.4	86.8

The total entry for the examination was 252

Higher Tier

	Max Mark	A*	Α	В	С	D	Ε	F	G
Overall Threshold Marks	175	136	119	102	85	67	58		
Percentage in Grade		8.5	12.8	23.4	26.6	19.1	7.5		
Cumulative Percentage in Grade		8.5	21.3	44.7	71.3	89.4	96.8		

The total entry for the examination was 141

Overall

	A *	Α	В	С	D	E	F	G
Percentage in Grade	3.6	5.4	9.9	23.3	15.7	16.6	9.4	7.2
Cumulative Percentage in Grade	3.6	8.9	18.8	42.2	57.9	74.4	83.9	91.0

The total entry for the examination was 393

General Certificate of Secondary Education Design & Technology: Resistant Materials (Full Course) 1956 June 2007 Assessment Series

Component Threshold Marks

Component	Max Mark	Α	В	С	D	Е	F	G
Paper 1	50			30	25	21	17	13
Paper 2	50	29	24	20	15			
Paper 3	50			30	25	21	17	13
Paper 4	50	33	28	24	19			
Coursework	105	81	69	57	46	35	25	15

Syllabus Options

Foundation Tier

	Max Mark	A*	Α	В	С	D	Ε	F	G
Overall Threshold Marks	175				95	79	64	49	34
Percentage in Grade					27.0	25.5	20.6	14.2	7.4
Cumulative Percentage in					27.0	52.4	73.0	87.2	94.6
Grade									

The total entry for the examination was 13077

Higher Tier

	Max Mark	A*	Α	В	С	D	Ε	F	G
Overall Threshold Marks	175	138	121	104	88	70	61		
Percentage in Grade		9.0	23.4	31.1	22.0	10.6	1.9		
Cumulative Percentage in		9.0	32.4	63.5	85.5	96.2	98.1		
Grade									

The total entry for the examination was 13231

Overall

	A *	Α	В	С	D	E	F	G
Percentage in Grade	4.5	11.8	15.7	24.5	18.0	11.1	7.0	3.6
Cumulative Percentage in Grade	4.5	16.3	32.0	56.5	74.5	85.6	92.7	96.3

The total entry for the examination was 26308

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