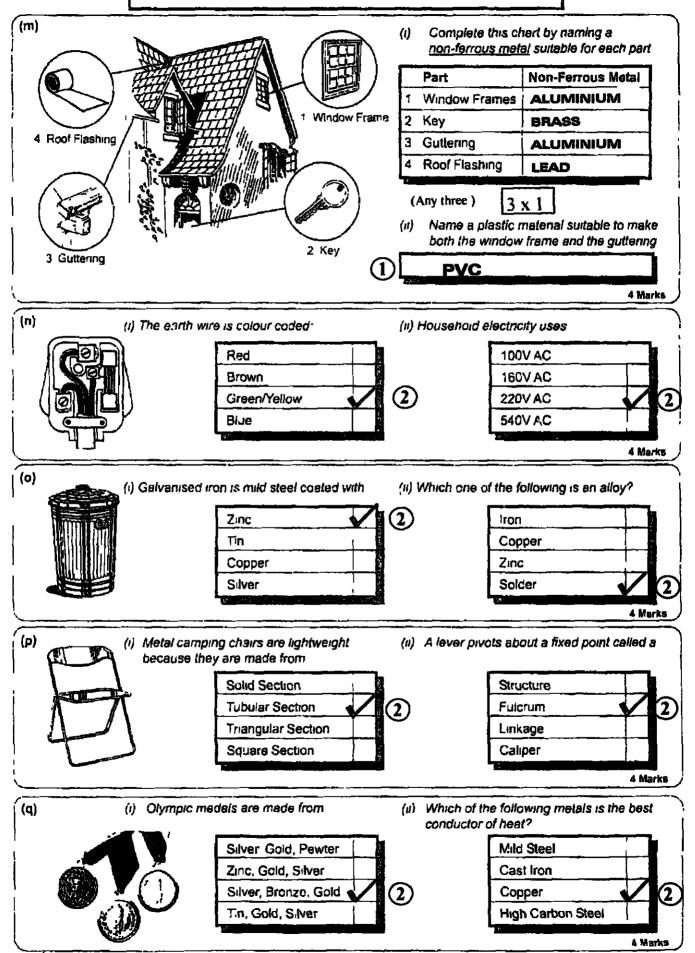
1.		1	ECTION A - 20 MARKS TEN QUESTIONS FROM THIS SE	40 Marks
(a)			After hardening, cold chisels should be	Annealed Enamelled Tempered
( -				Normalised
(b)	<u> </u>	(D)		Grub Screw
(10)		This fastener is a.	Cheese Head Screw	
			Round Head Screw	
		$\mathbf{O}$		Countersunk Screw 2
(c)				Die Nut
,,,	(Sells)		This cutting tool is a	Split Die
	lang!			Hand Reamer
l	E 10			Centre Drill
(d)				Round File
(0)			This tool is a	Half-Round File
	•		_	Square File
			 	Flat File
$\succeq$				Toxic Hazard
(e)	$\Lambda$		This sign warms of a/n;	Fire Hazard
			This sign warms of a(n)	Radiation Hazard
				Claster of Manager
$\succeq$				
<b>(1)</b>				Vernier Calipers
•		This instrument is a(n)	Inside Calipers	
				Outside Calipers 2
$\succeq$				Odd-leg Calipers
(g)			The point angle of a standard	118°
	141	AL.	twist drill is	150°
				210°
<u>_</u>		<i></i>		60°
(h)		<b>32</b> %		Parting Off
			This lathe technique is called	Underculting
				Knurling 2
L				Facing
(0)				Adjustable Spanner
"′			This tool is a(n)	Box Spanner
1				Ring Spanner
	<b>O</b>			Open Spanner
二				Acme Threads
(U)	IIII Zara a significante de la companya de la compa	This tap is used to cut	Square Threads	
1			ISO Metric Threads	
		WWW.WWW.WWW.	1	Buttress Threads
$\geq$				<u> </u>
(k)		<del></del>	Thus to also year of weether	Brazing Hearth Power Saw
	0		This tool is used with a	Forge
				Drilling Machine
$\succeq$				
(1)		11/28 -	This forging technique is called	Drawing Down
		Marie	, ma longing technique is cared	Forming an Eye
			1	Upsetting
		- <b>Y</b> ' /	ł	Punching

## SECTION B - 20 MARKS ANSWER ALL QUESTIONS FROM THIS SECTION



(i) Complete the chart:

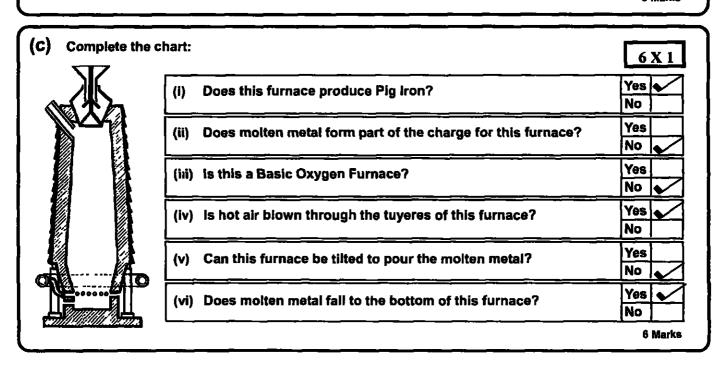
6 X 1

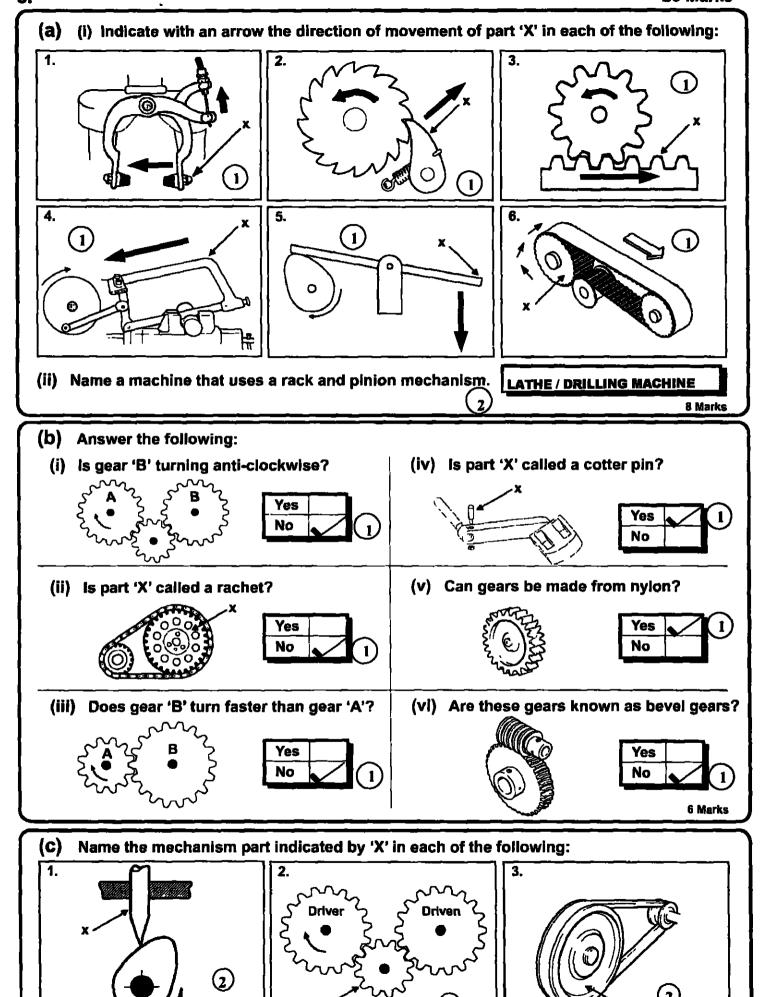
Plastic Material	Thermosetting or Thermoplastic	List a use for each plastic	
Polyurethanes	Thermosetting	Flexible foam for uphoistery	
Polythene	THERMOPLASTIC	SHOPPING BAGS/ BOTTLES	
Acrylic	THERMOPLASTIC	SHOP SIGNS/ BATHS	
Nylon	THERMOPLASTIC	GEARS / BEARINGS	

(ii) The ability of a metal to withstand wear is called:

Elasticity		
Hardness	(2)	<b>/</b>
Brittleness		
Malleability		
		8 Marks

(b) Complete the chart. 6 X 1 Yes Is the melting of a glass powder onto copper called enamelling? (i) No Yes (ii) Is hollowing a method used to form copper bowls? No Yes (iii) Does copper work harden? No Yes (iv) Is repoussé the method used to produce raised designs in copper? No Yes (v) Does copper rust? No Yes (vi) Does engraving involve the use of acid? No | 6 Marks

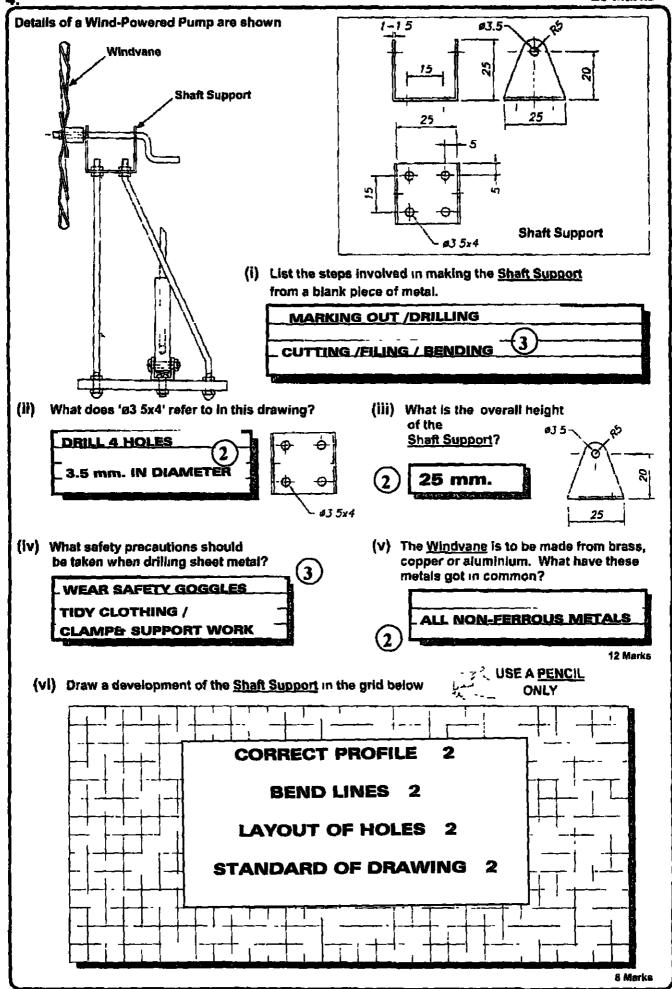




Name: IDLER GEAR

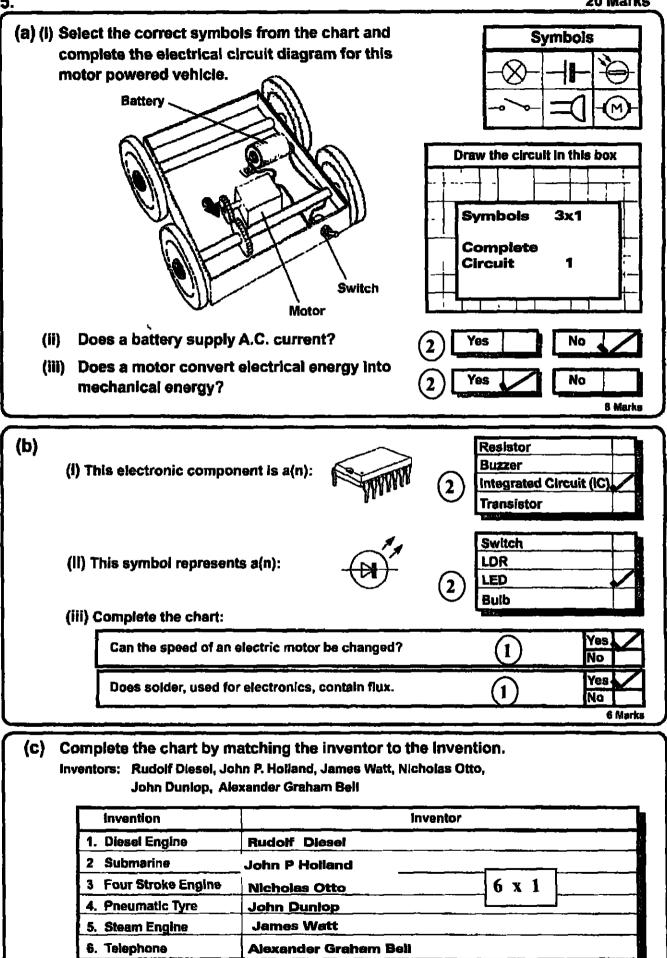
Name: FOLLOWER

Name. PULLEY



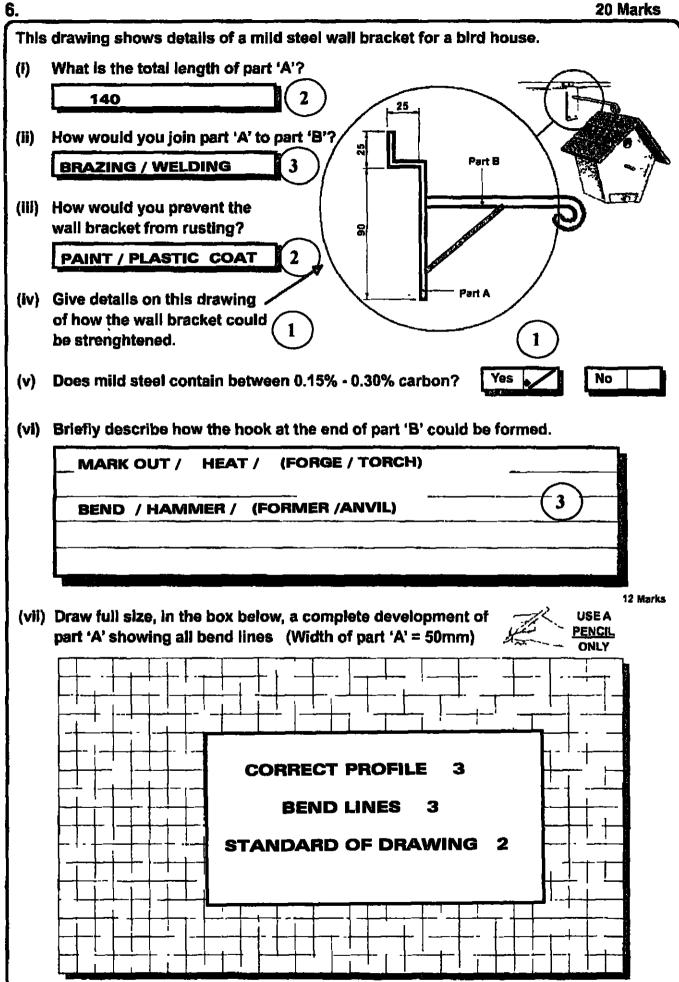
Page 6 of 8

6 Marks





8 Marks



## JUNIOR CERTIFICATE EXAMINATION, 2001 METALWORK TECHNIQUES AND DESIGN

## Marking Scheme Ordinary Level Project

Part	Description	Marks	Totali 🐇
Assembly	Supports to Base	2	MARK TWEE SHALL PROPE
	Supports to Shaft Support	2	
	Shaft to Shaft Support	2. 4.4.	10
	Windvane to Shaft	2	
	Cylinder to Support to Base	2	
Finish	Finish/workmanship	-10	10
Function	Function	10 + 1	10
Part 1	Profile Vane Ø	5 74-34	
(Windyane)	Slots	4	
	Holes	3	16
	Hole (centre)	1	
	Bending	3	
Part 2	Profile	4 5 3	7
(Base)	Holes	3-24	
Part 3	Profile	2	
(Cylinder Support)	Holes	2.34.15	5
	Bending	1	
Part 4 (Support)	Profile	<b>!</b> ******	4
(2 Off)	Thread	1	
Part 5	Profile	1	4
(Support) (2 Off)	Thread	1.Kirit	
Part 6	Profile	2 :	4
(Cylinder)	Holes	2	
Part 7	Profile	1	2
(Spacer)	Holes		
Part 8	Profile	8	
(Shaft Support)	Holes	3	13
	Bending	2	
Part 9	Profile	\$	5
(Shaft)	Thread	2.7.1	•
Design			10
		10 - 1 - 1 M	10 0 x 3
	t t	100	, , ,
	Total = 300		300