

- 2. Write your answers in the spaces provided or tick the appropriate box.
- 3. Hand up this paper at the end of the examination.

1. Total of end of<br/>page totals2. Aggregate total of all<br/>disallowed question(s)3. Total mark awarded<br/>(1 minus 2)4. Bonus mark for answering<br/>through Irish (if applicable)5. Total mark awarded if Irish<br/>Bonus (3+4)Note: The mark in row 3 (or row 5 if an<br/>Irish Bonus is awarded) must equal the<br/>mark in the Total Mark box on the script

MAKE SURE TO WRITE YOUR EXAMINATION NUMBER IN THE BOX PROVIDED ON THIS PAGE

 $\mathbf{N}$ 

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## SECTION A - 20 MARKS ANSWER ANY TEN QUESTIONS FROM THIS SECTION

40 Marks

(a)			Fret Saw	
		This cutting tool is a:	Junior Hacksaw	
			Coping Saw	
			Pad Saw	
(b)		This tool is used when:	Riveting	
			Drilling	
			Threading	
			Soldering	
(c)		This measuring instrument is a(n):	Vernier Calipers	
			Outside Calipers	
			Micrometer	
			Depth Gauge	
(d)	<u>A</u>		Flat Edge	
(u)	x	Part 'X' is called the:	Safe Edge	
			Double Cut	
			Single Cut	
		This tool is a:	Machine Vice	
(e)			Hand Vice	+
			Vice Grips	+
			G-Cramp	
(f)	×,		Flank	
		Part 'X' of the thread is called the:	Lead	
			Pitch	
			Crest	
(g)			Rivet	
		This fastener is a:	Lock Nut	
			Bolt	
			Grub Screw	
(h)		This lathe operation is called:	Parting	
(11)			Threading	
			Knurling	
			Facing	
 /i)		This lathe part is called a: This cutting tool is a:	Tailstock	
(i)			Three Jaw Chuck	
			Headstock	
			Topslide	
			Twist Drill	
(j)				-
			Reamer	-
			Centre Drill	-
		1	Countersinking Drill	
(k)		This tool is called a(n):	Socket	
			Ring Spanner	
			Adjustable Spanner	
			Ratchet	
(1)	This marking out tool is called a(i	Inside Calipers		
. ,		This marking out tool is called a(n):	Odd Leg Calipers	
			Spring Dividers	
		Page 2 of 8	Scriber	

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

(m) (i) Name a metal used to make the engine case 'X': (ii) Is this metal ferrous or non-ferrous? (iii) Does this metal rust? (iv) The exhaust pipe 'Y' is usually coated with a metal. Name this metal. 4 Marks (n) State the function of a spark plug. 4 Marks (o) (ii) Name a device other than a (i) Part 'X' is called the: lawnmower that can be driven by a small petrol engine. Valve **Connecting Rod** Piston Crankshaft 4 Marks (p) List four differences between this bicycle and a modern bicycle. 1. 2. 3. 4 Marks (ii) Indicate with an arrow the fulcrum point of the brake lever. turns of B. (q) (i) One turn of A= 000 A = 60 Teeth B = 15 Teeth

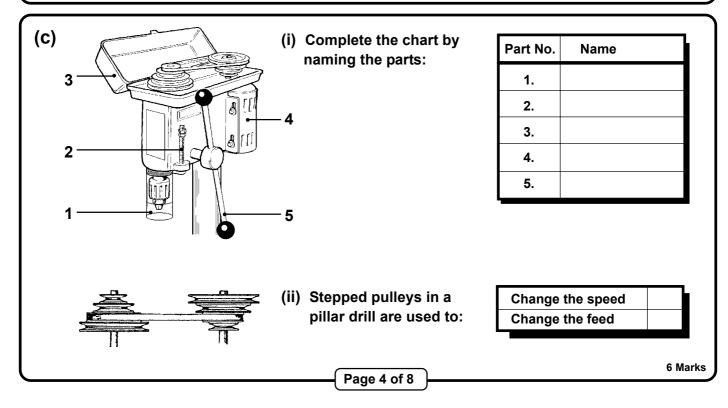
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4 Marks

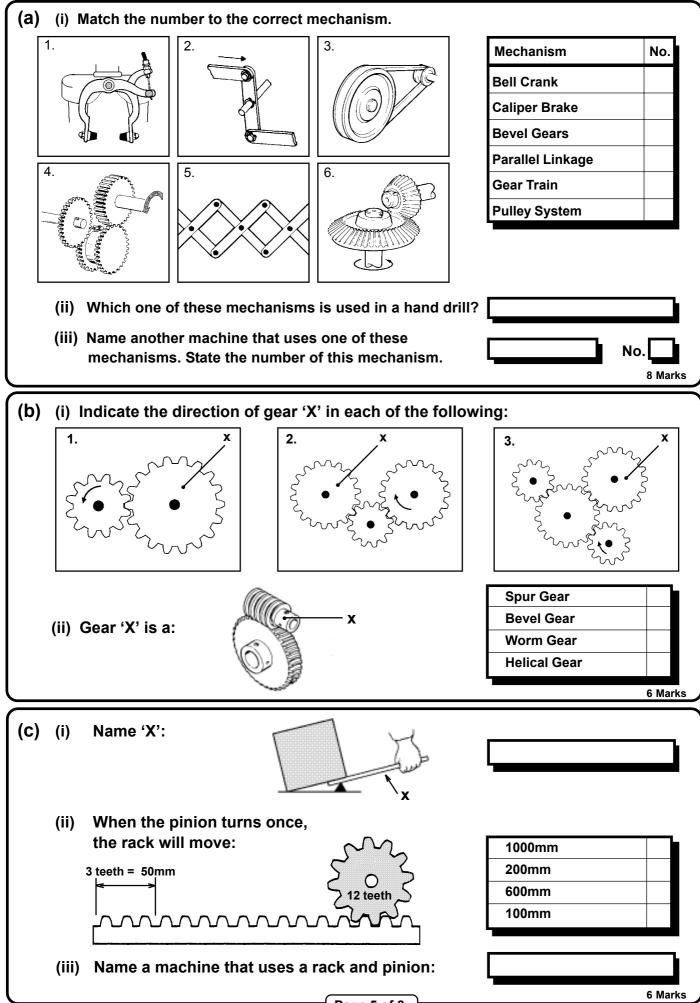
Material	List a use for each material	
Nylon		
Copper		
PVC		
Stainless Steel		
Brass		
Polythene		
Mild Steel		

8 Marks

<i>(</i> 1)	Can they meast time plastics here a shaped?	Yes
(i)	Can thermosetting plastics be re-shaped?	No
(!!)		Yes
(ii)	Is aluminium ore called bauxite?	No
(111)	Is copper a good conductor of heat?	Yes
(iii)		No
(1)	Is bronze an alloy of copper and tin?	Yes
(iv)		No
()	Is cast iron used to make fire grates?	Yes
(v)		No
(\vi)	Is mild steel an alloy?	Yes
(vi)		No



2.



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