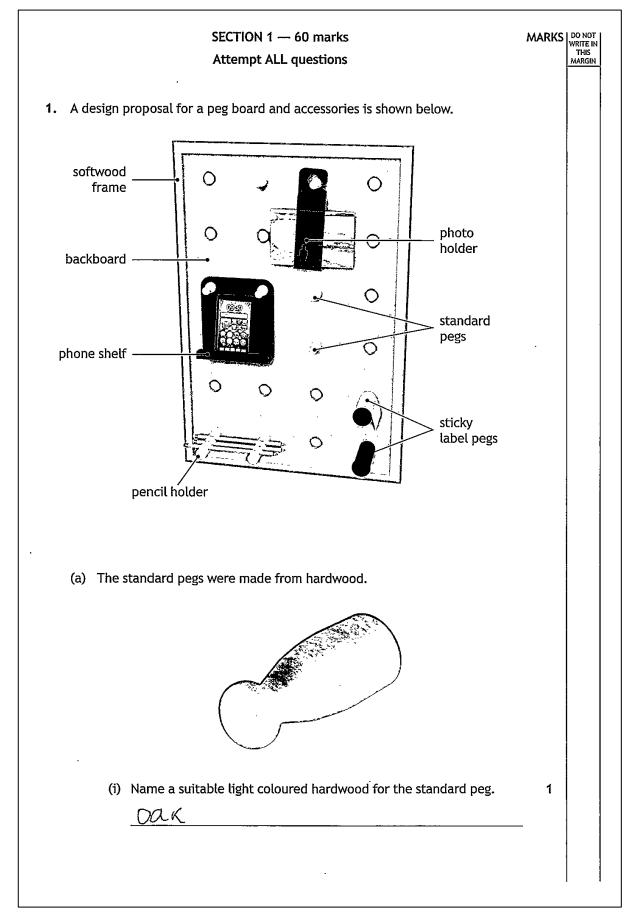
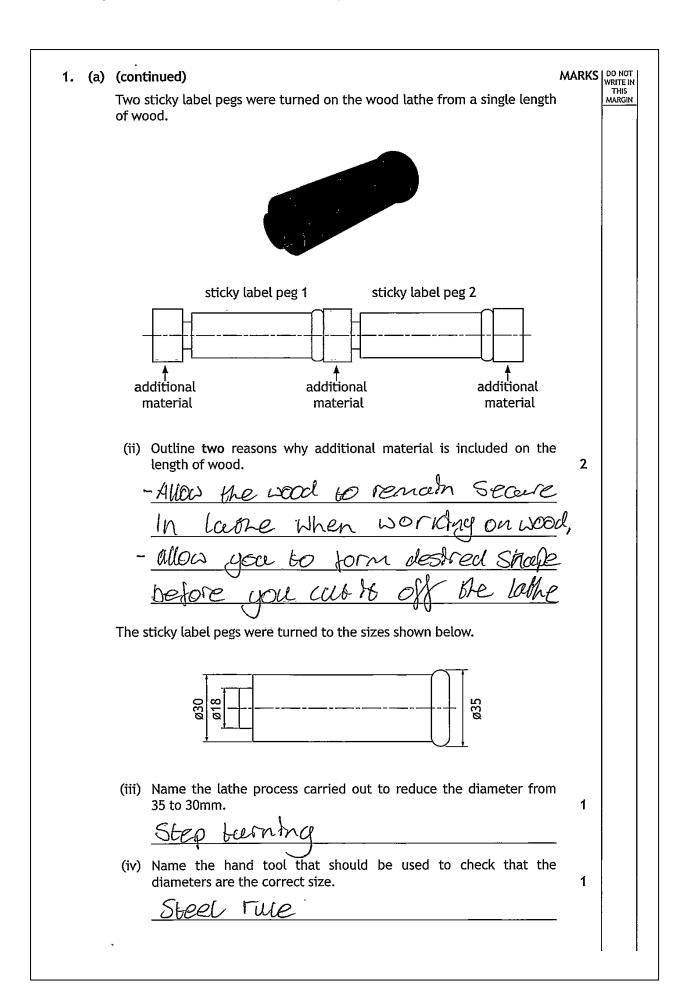
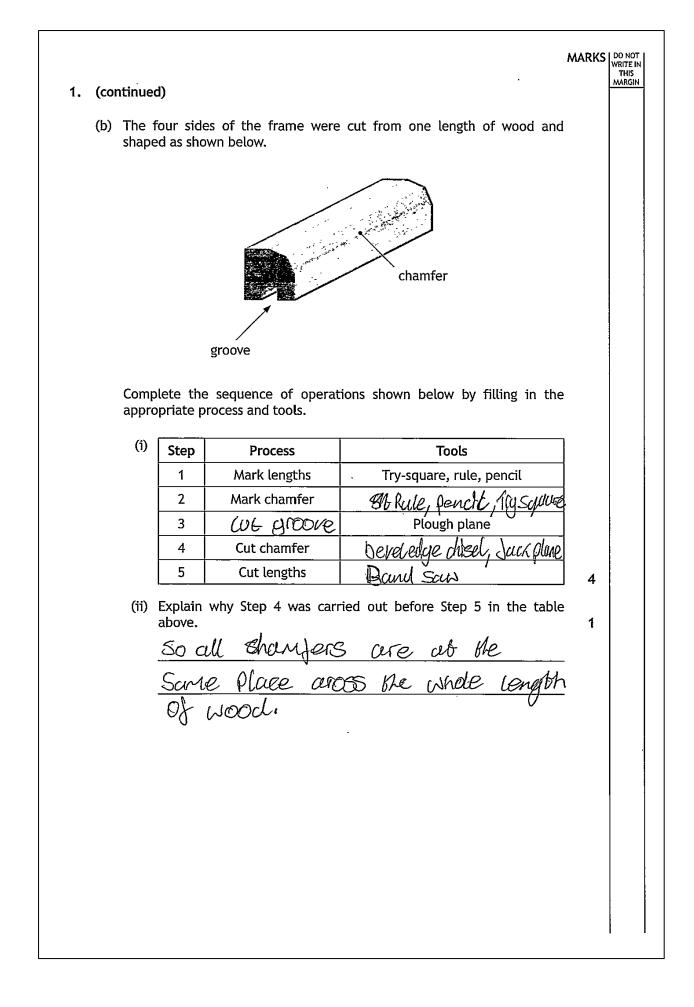
Candidate 2



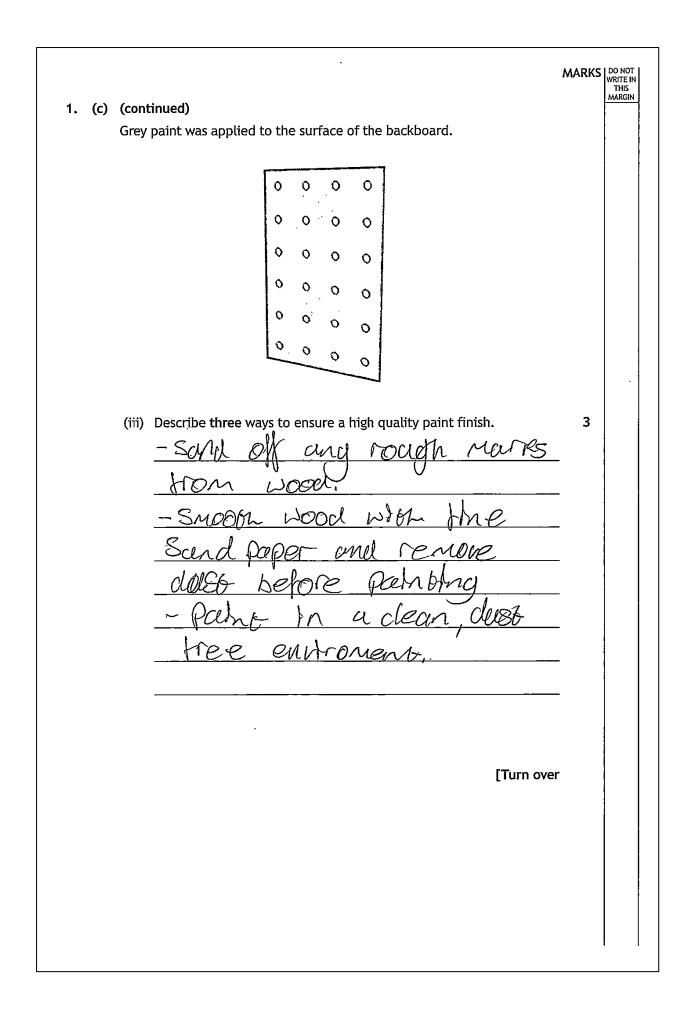


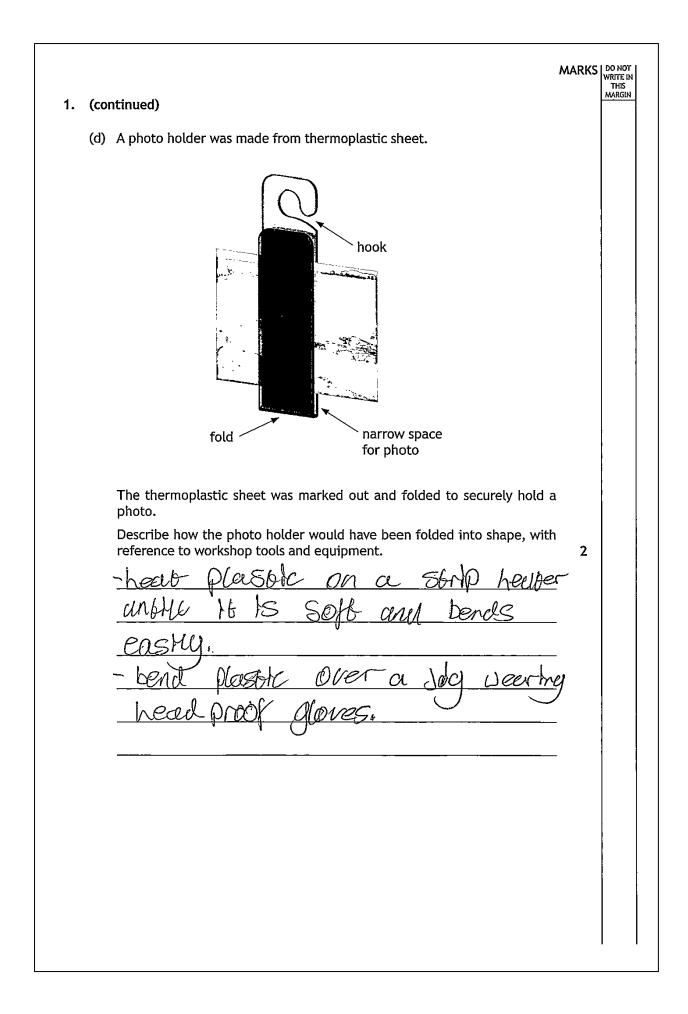


MARKS DO NOT WRITE IN THIS MARGIN 1. (b) (continued) The frame was checked for squareness during assembly. (iii) Describe two methods of checking the frame is square. You may use sketches to illustrate your answer in the box below. 2 use two trasquers to check are square. Measure OFNOTS from corner to corner d'agonely Mare Sa OSS. and de se they are fule, Some length using a steel Be fame danese reshod [Turn over

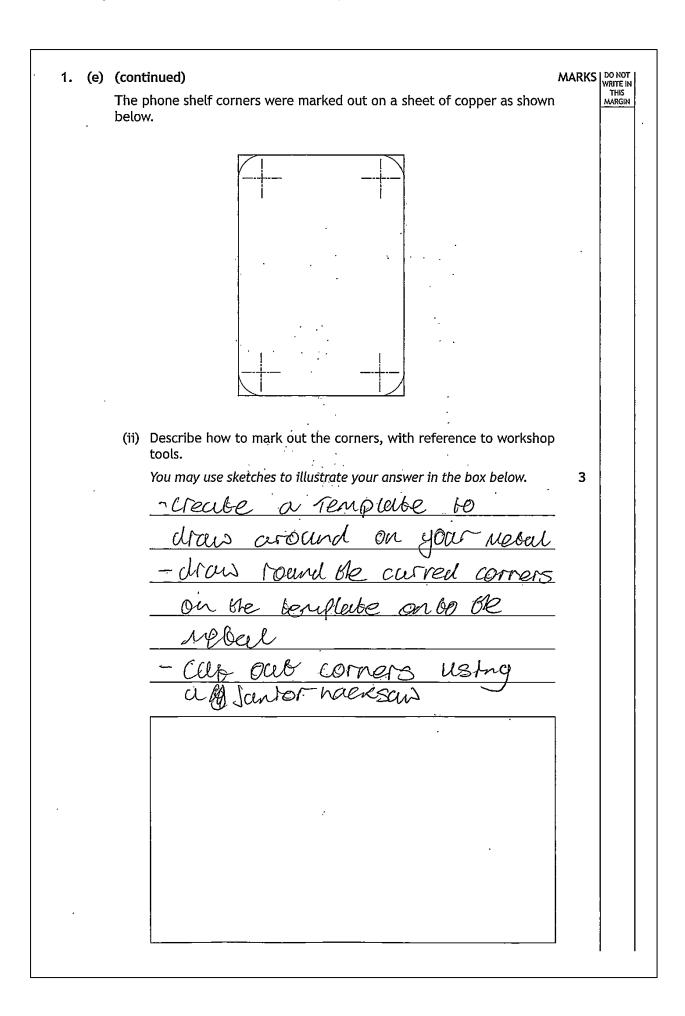
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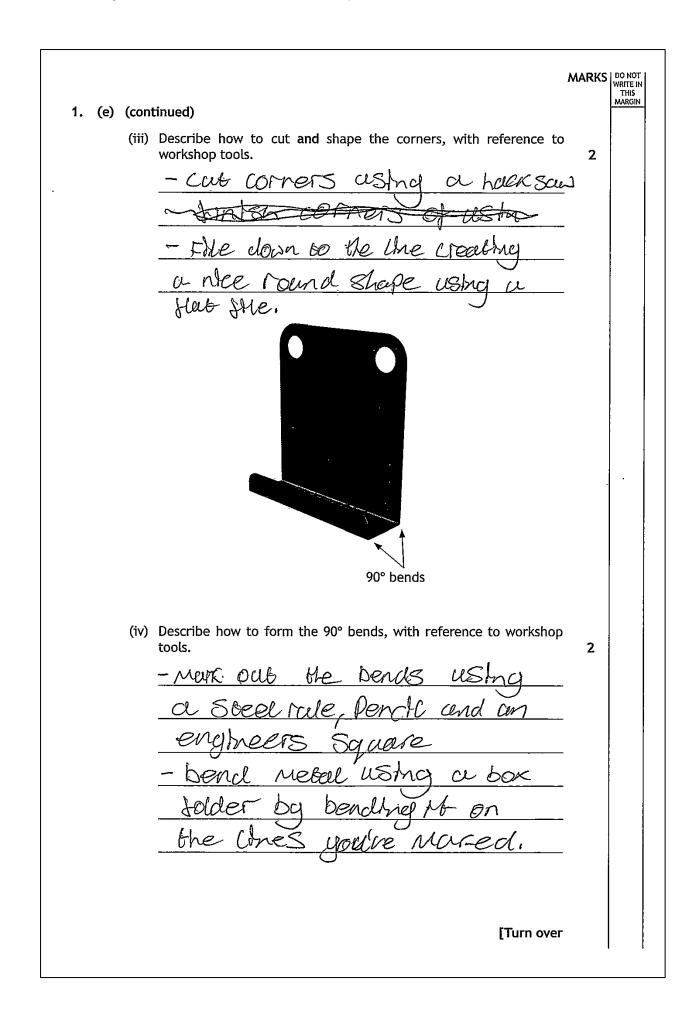
(c) MDF was used to make the backboard. $\begin{array}{cccccccccccccccccccccccccccccccccccc$	1. (continued)	MARKŚ	DO NO WRITE THIS MARG
(i) State two reasons why MDF is a suitable choice of material for the backboard. 14 15 dwable and Strong and the backboard. 15 State two safety checks that must be carried out on the pillar drill before use. - Check drill bro is secured.	(c) MDF was used to make the backboard.		
backboard. <u>It is dwable and Strong and</u> <u>It is dwable and Strong and Stro</u>			
(ii) State two safety checks that must be carried out on the pillar drill before use. 2 - Check UNU BIG IS Secured	Ht is durable and strong, and Ht is easy to work with In the workshop.	2	
	(ii) State two safety checks that must be carried out on the pillar drill before use. - Check UAU BIG IS Secured	2	

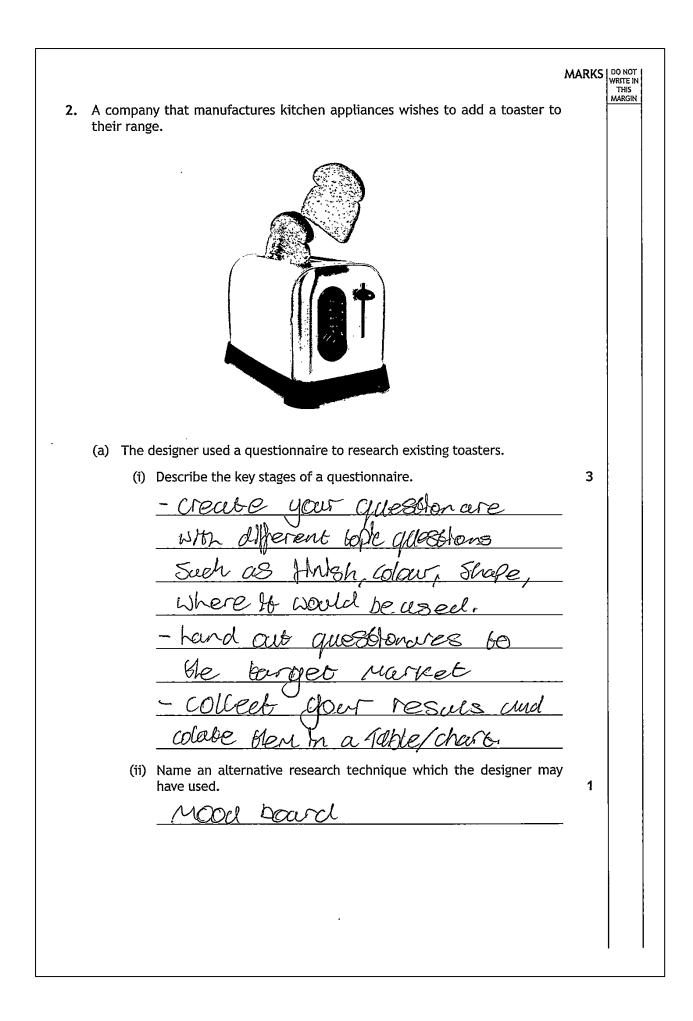




1. (cc	MARKS	WRIT TH MAR
(e)	The phone shelf was made from copper sheet.	
	A CONTRACTOR OF	
	(i) State two reasons why copper is a suitable choice of material for the phone shelf. 2 <u>easy fo cerb and shape</u> - <u>Ht is a non ferres Mebali</u>	
	[Turn over	







MARKS DO NOT WRITE IN THIS MARGIN (continued) 2. The designer produced a product specification after completing the research. (b) Explain why a specification is used during the design process. 1 welle sure the applience real TO) the requiraients of the barget merkets The designer used brainstorming as an idea generation technique. (c) Describe the key stages of brainstorming. 3 Inceles - collert Breit NUS rost 0 C ane (IPA [Turn over

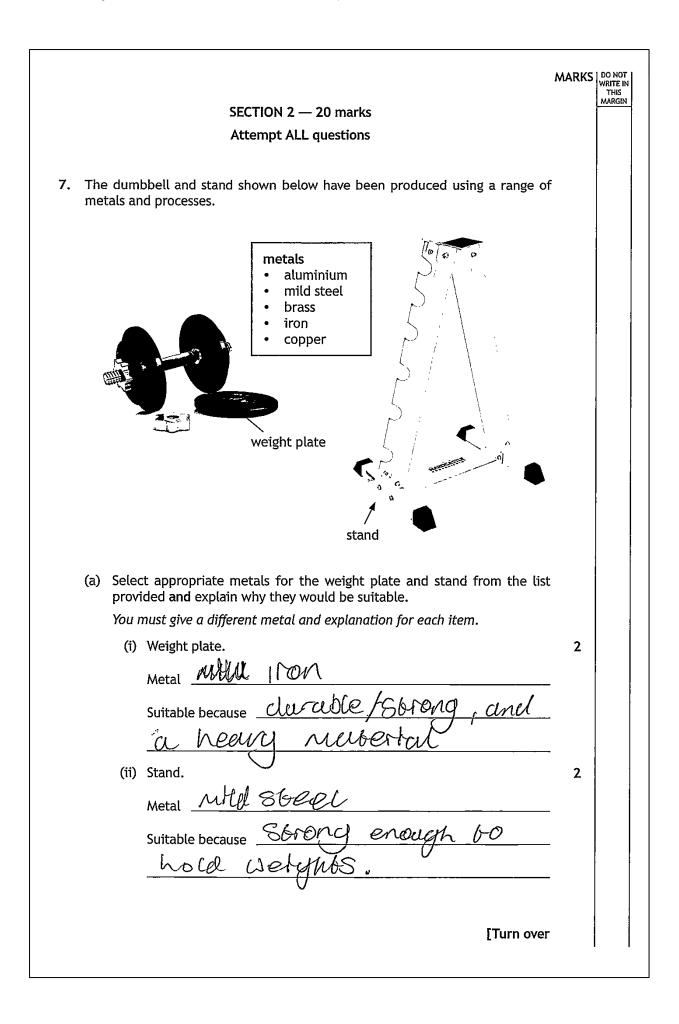
MARKS DO NOT WRITE IN THIS MARGIN A range of graphic techniques were used throughout the design of the trolley 3. wheel shown below. (a) Sketches were used at the initial ideas stage. State two reasons why this graphic technique is appropriate. 2 and easy 60 drav. change idees an you be show allent S INTE RUS eas (b) During the planning for manufacture stage, the designer would produce working drawings. State two reasons why working drawings are required. 2 a 190 Melle Idea t an bro(Ir) ne O.

MARKS DO NOT WRITE IN THIS MARGIN 4. Models are often used during the design process. Explain why models may be used during the design process. 3 -allows you epa alled 6D \leq S der v VDR Daup G and Carr 1L 60 allow NI 50 S Ć lOi unobion Ò 60 OP Mere charges ane be ŀU, P Nerrore cl [Turn over

MARKS	DO NOT WRITE IN THIS MARGIN	
5. An iron and ironing board are shown below.		
You must give different examples in (a), (b) and (c).		
(a) Describe how ergonomics may have influenced the design of the iron and/or the ironing board. - The helpful of the transformed DOCLECL WOULD be Influenced by ergonomics and Anthropenebile deta 60 Mare Sure its surbed Mozo clients, - The type of metherical the itom's herelie is mede of these of the itom's herelie is mede of these of the Docesce to hold enter - The pressure reached to operate, Ile buttons would be influenced by ergonts, - The size of the cap to HU ble from with water would be influenced by ergonetics So offer to how ergonetics		
	ļ	

MARKS DO NOT WRITE IN THIS MARGIN (continued) 5. (b) Describe how function may have influenced the design of the iron and/or the ironing board. 2 brenetth 610 Ø. ζ 0 pur GI CÐO butte Ser tup. Ħ ON on abiro ore fron can Chart to can itth Steme (c) Describe how safety may have influenced the design of the iron and/or the ironing board. 2 101 U neer hendte. ore ιa Ð m 8 [Turn over

MARKS DO NOT WRITE IN THIS MARGIN 6. A portable speaker is shown below. (a) Describe three aesthetic aspects of the speaker. 3 repor cioh P COU Nel 621 <u>P</u>& (ON The company developing the speaker has a strong brand image. 2 (b) Explain two benefits of a strong brand image. N Marketing techniques can be used to influence sales. (c) Name two marketing techniques that the company could use to promote 2 the speaker. ΛB an 62 brane NaN e.



7. (co	ntinued)	MARKS	DO NOT WRITE IN THIS MARGIN
	The weight plates have been sand cast.		
		·	
	Describe two identifying features that would show the weight plates have been sand cast.	e 2	
	where the nould splitos.	-	
		-	
(c)	The spin lock collars have been die cast.		
	Explain why die casting was used to manufacture the spin lock collars. - Herdens ble Mebel Migg H Ubrable and Strong - easy to Manufadoure.	2 	

7.	MARKŠ (continued)	DO NOT WRITE IN THIS MARGIN
	(d) A concrete filled dumbbell is shown below.	
	thermoplastic casing	
	Name a suitable process to manufacture the thermoplastic casing of the dumbbell and explain why it is suitable. 2	
	Process total and marketing Injection would	Ang
	Suitable because <u>Mendos</u> a hollo	
	Sheffe.	
	[Turn over	

B. N	Aany products are mass manufactured.	
(a) Describe the impact of mass manufacturing on society. <u>-If removes the need for</u>	3
	hour less of jobs	-
	and local economic della	ie.
	-It remarks the deniend	-
	tor skilled workers as a cot of nuce manufactures,	tre
٢	Not all products are mass manufactured.	-
(b) Explain why some products are not suitable for mass manufacture.	1
	white mess numerfactured as	-
	He benes Settled workers und the beereabe Ben.	-
9 A	Manufacturers often use standard components in the production of products.	
	Dutline the possible benefits of using standard components. <u>-evsu 60 Source MMu um/of</u> Muse Manufalbure	2
-	-affordable 60 beg.	_
-		-

