

Candidate 8

Section 1

Question 1(a)

The candidate was awarded **4 marks**.

- ◆ 'ABS footrest of the manual wheelchair...can be cleaned off'
- ◆ 'aluminium front wheels...won't weigh down the wheelchair helping it to move and be carried by users easily.'
- ◆ 'mild steel frame...malleable meaning the bent frame can be achieved'
- ◆ 'nylon used...adds comfort for the user sitting in it.'

Question 1(b)

The candidate was awarded **6 marks**.

- ◆ 'ABS footrests... were manufactured using injection moulding'
- ◆ 'intricate details'
- ◆ 'high accuracy in moulds'
- ◆ 'The mild steel frame in the manual wheelchair was made by extrusion'
- ◆ 'uniform cross-sections'
- ◆ 'The aluminium frame...was formed by bending'

Additional marks could have also been awarded for:

- ◆ 'The aluminium & the stainless steel is also joined together by welding.'

Question 1(c)

The candidate was awarded **4 marks**.

- ◆ 'front wheels...able to move around easily'
- ◆ 'footrests in the manual...user's feet won't slip off'
- ◆ 'collapsible wheelchair is influenced by function as users can then fold it away, transport it and store it'
- ◆ 'bumper & wings...improving the user's abilities & performance'.

Question 1(d)

The candidate was awarded **3 marks**.

- ◆ 'save time...not having to make them'
- ◆ 'bought in from third party companies...more difficult & tedious.'
- ◆ 'Standard components are also delivered...would go behind schedule'

Question 1(e)

The candidate was awarded **4 marks**.

- ◆ 'in terms of shin & leg length...footrests adjustable'
- ◆ 'The surface of the chair...prevent lack of comfort.'
- ◆ 'made from lightweight materials meaning when it's collapsed a user can easily lift it'
- ◆ 'This also makes it easier for the user to push or move'

Section 2**Question 2(a)**

The candidate was awarded **0 marks** because they do not answer the question.

Question 2(b)

The candidate was awarded **2 marks**.

- ◆ 'comes in many colours'
- ◆ 'easy to clean which helps the packaging to keep the food fresh & uncontaminated'

Question 2(c)

The candidate was awarded **2 marks**.

- ◆ 'The volume...to accommodate the demand'
- ◆ 'The processes...mass production systems'

Question 3(a)

The candidate was awarded **2 marks**.

- ◆ 'the design can easily...errors are come across'
- ◆ 'allows communication...feedback can be easily shared'

Question 3(b)

The candidate was awarded **2 marks**.

- ◆ 'consumer loyalty...trustworthy.'
- ◆ 'will also remind consumers of the brand straight away and be encouraged to buy from them'

Additional marks could have also been awarded for:

- ◆ 'Can also justify high prices...to make more profit'

Question 3(c)

The candidate was awarded **2 marks**.

- ◆ 'trademark'
- ◆ 'protect their logo'

Question 3(d)

The candidate was awarded **3 marks**.

- ◆ 'The first stage of a product...little sales occurring.'
- ◆ 'The second stage of a product...product grows.'
- ◆ 'The last stage of a product...less products are bought.'

Question 4(a)

The candidate was awarded **1 mark**.

- ◆ 'contrast between black and blue colours of the 2nd razor creates aesthetic appeal as the two strong colours differ'

Question 4(b)

The candidate was awarded **6 marks**.

- ◆ 'Block models'
- ◆ 'The aesthetics of the product...form of the product'
- ◆ 'Ergonomics can also be tested by touching the model and how comfortable it's to hold.'
- ◆ 'Sketch models'
- ◆ 'can help the designer to generate ideas'
- ◆ 'helps the designer to make decisions based on physical models and to analyse their ideas to advance the product further.'

Question 5(a) (i)

The candidate was awarded **2 marks**.

- ◆ 'lays out design issues the product must include'
- ◆ 'safety of a product or the function it's supposed to have.'

Question 5(a) (ii)

The candidate was awarded **1 mark**.

- ◆ 'how the product will be assembled and the issues that may arise when actually producing the product.'

Question 5(b)

The candidate was awarded **1 mark**.

- ◆ 'Comparison – a designer could...being compared before'

Question 5(c)

The candidate was awarded **4 marks**.

- ◆ 'use environmentally friendly energy sources'
- ◆ 'recyclable plastics'
- ◆ 'The manufacturer could...transport their product'
- ◆ 'Manufacturers could also...materials & products'.

Question 6(a)

The candidate was awarded **2 marks**.

- ◆ 'Comparisons between existing materials could be done to compare colours' – linked to – 'similarities between a material therefore identifying it'
- ◆ 'The materials could be...thermosetting plastics'.

Question 6(b)

The candidate was awarded **2 marks**.

- ◆ 'Ribs and webs help to increase the strength'
- ◆ 'Bosses give an indication of where standard components can be fitted if the product is to be assembled'

Question 6(c)

The candidate was awarded **2 marks**.

- ◆ 'more clarity on how to appropriately use the product if instructions are given on the label'
- ◆ 'CE symbol on a product...safety'

Question 7

The candidate was awarded **8 marks** because they displayed extensive knowledge and understanding of how graphics can be used during the design process. Detailed information was given about different types of graphics and how they are used to support designing.

Total – 63 marks out of 80