

Candidate 5

Section 1

Question 1(a)

The candidate was awarded **5 marks**.

- ◆ 'good strength to weigh ratio'
- ◆ 'secure when holding the weight of an adult user.'
- ◆ 'will be able to withstand and bumps and crashes'
- ◆ 'nylon front wheels...self lubricating'
- ◆ 'lightweight making the wheels easy to turn making the chair easy to move.'

Question 1(b)

The candidate was awarded **6 marks**.

- ◆ 'Injection moulding of the ABS adjustable footrests'
- ◆ 'patterns and textures can be achieved'
- ◆ 'Extrusion of the tubular aluminium frame'
- ◆ 'consistent cross section'
- ◆ 'Piercing and blanking of the bumper and wings'
- ◆ 'accuracy can be achieved'

Additional marks could have also been awarded for:

- ◆ 'process is being repeated.'

Question 1(c)

The candidate was awarded **3 marks**.

- ◆ 'must be easy to collapse with minimum strength required from the user'
- ◆ 'strong and tough to protect user incase of any collisions during its use'
- ◆ 'strong enough to hold the weight of a person for a long period of time'

Question 1(d)

The candidate was awarded **1 mark**.

- ◆ 'having to trust other companys such as a subcontractor to provide necessary equipment.'

(No marks would be awarded for statements that refer to the consumer rather than the manufacturer).

Question 1(e)

The candidate was awarded **2 marks**.

- ◆ 'the average... weight of there user.'

- ◆ 'any user... manoeuvre themselves around.'

Section 2

Question 2(a)

The candidate was awarded **2 marks**.

- ◆ 'very cheap to do especially if repeating often.'
- ◆ 'made to the same standard with the same amount of accuracy.'

Question 2(b)

The candidate was awarded **1 mark**.

- ◆ 'Polypropylene'

Question 2(c)

The candidate was awarded **1 mark**.

- ◆ 'The amount of the product being produced regularly.'

Question 3(a)

The candidate was awarded **2 marks**.

- ◆ 'cost efficient...need to be considered.'
- ◆ 'design that they can easily make changes to.'

Question 3(b)

The candidate was awarded **2 marks**.

- ◆ 'customers will buy an item on pre order before it has even been released as they trust the brand.'
- ◆ 'people will see a big brand and know it must be good as it has so many customers.'

Question 3(c)

The candidate was awarded **1 mark**.

- ◆ 'copyrighted'

Question 3(d)

The candidate was awarded **2 marks**.

- ◆ 'product is released... ready for release'
- ◆ 'Stage D... so sales decline'

Question 4(a)

The candidate was awarded **2 marks**.

- ◆ 'the gillette razor contrasts... colour scheme.'
- ◆ 'The silver detail on the gillette razor gives it a modern day twist making it suitable for the target market.'

Question 4(b)

The candidate was awarded **5 marks**.

- ◆ 'Block model'
- ◆ 'fit securely in the users hand'
- ◆ 'see aesthetically how it looks'
- ◆ 'CAD models'
- ◆ 'let designer test how design will look in a range of different materials at the click of a button.'

Question 5(a) (i)

The candidate was awarded **1 mark**.

- ◆ 'showing designer what target market wants and is looking for.'

Question 5(a) (ii)

The candidate was awarded **2 marks**.

- ◆ 'showing to manufacturer how design will be manufactured and put together'
- ◆ 'including things like sizes and dimensions'

Question 5(b)

The candidate was awarded **0 marks** because they do not answer the question. This response is too simplistic and simply repeats the question.

Question 5(c)

The candidate was awarded **4 marks**.

- ◆ 'Introduce less packaging on products'
- ◆ 'Design products for disassembly'
- ◆ 'Use recycable materials'
- ◆ 'Reuse old parts that still work from old designs on new ones'

Question 6(a)

The candidate was awarded **0 marks** because they do not attempt to answer the question – no response.

Question 6(b)

The candidate was awarded **1 mark**.

- ◆ 'webs/ribs it to add to strength and stability'

Question 6(c)

The candidate was awarded **1 mark**.

- ◆ 'identify what company brand have made product.'

Question 7

The candidate was awarded **3 marks** because they displayed adequate knowledge and understanding of how graphics can be used during the design process. Some reference was made about different types of graphics and how they are used to support designing.

Total – 47 marks out of 80