

## Candidate 6

### Section 1

#### Question 1(a)

The candidate was awarded **1 mark**.

- ◆ 'Mild steel frame is very durable meaning it isn't likely to break with use'

#### Question 1(b)

The candidate was awarded **3 marks**.

- ◆ 'Nylon wheels are injection moulded'
- ◆ 'Die casted Aluminium front wheels'
- ◆ 'allowing for easier mass production'

#### Question 1(c)

The candidate was awarded **5 marks**.

- ◆ 'collapsible seat allows the wheelchair to be easily transported in a compact space'
- ◆ 'mild steel frame makes sure that the wheel chair isn't likely to cave in under users own weight.'
- ◆ 'handles on the back of the collapsible wheel chair allow it to be pushed along by somebody else'
- ◆ 'footrests on both wheelchairs ensure the users feet don't drag along the ground'
- ◆ 'bumpers on the sports wheelchair provide protection'

#### Question 1(d)

The candidate was awarded **1 mark**.

- ◆ 'quicker as you don't...cheaper alternative to making it yourself'.

#### Question 1(e)

The candidate was awarded **1 mark**.

- ◆ 'wheels of both chairs needs to be close enough to the seat so the user's arms aren't uncomfortable while pushing them.'

### Section 2

#### Question 2(a)

The candidate was awarded **0 marks** because they do not answer the question.  
(*No marks would be awarded for mass production*).

**Question 2(b)**

The candidate was awarded **2 marks**.

- ◆ 'PVC'
- ◆ 'range of colours'

**Question 2(c)**

The candidate was awarded **0 marks** because they do not answer the question. The response is too simplistic/not detailed enough to gain a mark.

**Question 3(a)**

The candidate was awarded **1 mark**.

- ◆ 'easily go back and change decisions made earlier'

**Question 3(b)**

The candidate was awarded **2 marks**.

- ◆ 'help to sell the product to fans of the brand who trust it'
- ◆ 'add artificial price making the product cost more.'

**Question 3(c)**

The candidate was awarded **1 mark**.

- ◆ 'Copyright'

**Question 3(d)**

The candidate was awarded **0 marks** because they do not answer the question. The candidate does not identify any stage of the product life cycle in relation to their response.

**Question 4(a)**

The candidate was awarded **2 marks**.

- ◆ 'The colour of the Blue Razor would make it more appealing to younger men.'
- ◆ 'The Metal Razor has contrasting colours to make it stand out.'

**Question 4(b)**

The candidate was awarded **4 marks**.

- ◆ 'Scale model'
- ◆ 'discover issues with ergonomics or anthropometrics'
- ◆ 'CAD model'
- ◆ 'help discover issues with the aesthetics of the product and can be easily changed.'

**Question 5(a) (i)**

The candidate was awarded **1 mark**.

- ◆ 'what the client wants the product to look, colours, shape etc. would be found in one'

**Question 5(a) (ii)**

The candidate was awarded **1 mark**.

- ◆ 'To give technical requirements of the product, sizes or dimensions would be found in one.'

**Question 5(b)**

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

**Question 5(c)**

The candidate was awarded **4 marks**.

- ◆ 'could use re-usable materials in their products'
- ◆ 'use less hardwoods as they take far longer to grow.'
- ◆ 'use any left over materials from the manufacturing process in future products' (reduce waste)
- ◆ 'design the product to last longer'

**Question 6(a)**

The candidate was awarded **1 mark**.

- ◆ 'Looking at the physical properties (i.e. colour)'

**Question 6(b)**

The candidate was awarded **1 mark**.

- ◆ 'Bosses, ribs and webs add structural strength to the product'

**Question 6(c)**

The candidate was awarded **1 mark**.

- ◆ 'They tell the consumer what the product is made from'

**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 – 35 marks out of 80**