

Candidate 1

The evidence for this candidate has achieved the following marks for each question of this Course Assessment component.

Question 1(a)

The candidate was awarded **6 marks** because they provided 6 explanations of why the materials had been chosen:

- ◆ Mild Steel – malleable/ductile
- ◆ Rubber – durable/provides grip
- ◆ Waterproof Cloth – hygienic /easy to clean
- ◆ Nylon – good strength to weight ratio/chemical resistant
- ◆ Polypropylene – available in a variety of colours/readily available

Question 1(b)

The candidate was awarded **6 marks**. Three processes identified with suitable explanations:

- ◆ Extrusion – Constant cross-section
- ◆ Injection moulding – accuracy/quality surface finish/mass production (economies of scale)
- ◆ Piercing and Blanking –accuracy/repeatability

Question 1(c)

The candidate was awarded **3 marks**.

- ◆ Physiology (2 marks) – easy to push etc...
 - force required to remove and attached cloth (self-assembly)
- ◆ Psychology (1 mark) – whole statement on ease of understanding of product

Question 1(d)

The candidate was awarded **3 marks**.

- ◆ Transporting heavy objects
- ◆ Tolerate frequent use
- ◆ Ease of cleaning

Question 1(e)

The candidate was awarded **2 marks**.

- ◆ Economies of scale (reduced costs)
- ◆ Lower skilled labour for assembly (reduces costs)

Question 2(a)

The candidate was awarded **2 marks**.

- ◆ Low cost
- ◆ Strong and stable

(No marks awarded for durability/fewer scratches)

Question 2(b)

The candidate was awarded **2 marks**.

- ◆ Accuracy
- ◆ Excellent surface finish/no further finishing

(No marks awarded for mass production)

Question 2(c)

The candidate was awarded 3 marks because they offered four clear explanations.

- ◆ Flowcharts
- ◆ CAD
- ◆ CNC
- ◆ Gantt Charts

Question 3(a)

The candidate was awarded **2 marks**.

- ◆ Surface Finish
 - ◆ Cost Comparison
- (No marks awarded for accuracy)

Question 3(b)

The candidate was awarded **3 marks** because they gave a correct material together with two correct explanations.

Question 3(c)

The candidate was awarded **2 marks**.

- ◆ Stability
- ◆ Finger Traps

Question 3(d)

The candidate was awarded **4 marks**.

- ◆ Green/sustainable
- ◆ Recyclable
- ◆ Reduce packaging
- ◆ Improved QA (??)

Question 4(a)

The candidate was awarded **3 marks**.

- ◆ Portable
- ◆ Durable
- ◆ Recharge batteries

Question 4(b)

The candidate was awarded **1 mark**.

- ◆ Length of handle relating to hand size

Question 4(c)

The candidate was awarded **2 marks**.

- ◆ Testing in environment
- ◆ Recording and evaluating

Question 4(d)

The candidate was awarded **2 marks**.

- ◆ Brand loyalty
- ◆ Ability to charge a higher price
- ◆ (reduces advertising costs not explained)

Question 5(a)

The candidate was awarded **1 mark**.

- ◆ Description of questionnaire

Question 5(b)

The candidate was awarded **0 marks** because there were no explanations offered.

Question 5(c)

The candidate was awarded **2 marks**.

1 mark awarded for each statement. A more detailed description or use of illustrations may have gained more marks.

Question 6

The candidate was awarded **6 marks** because they displayed a secure knowledge and understanding of aesthetics. A wide range of aesthetic factors were explored but not in great depth.

Total 55 Marks