

Candidate 2

The evidence for this candidate has achieved the following marks for each question/*section* 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:

- ◆ Nylon – self lubricating/durable
- ◆ Galvanised Steel – corrosion resistant/aesthetic qualities
- ◆ Rubber – hard-wearing
- ◆ Tubular steel – good strength to weight ratio
- ◆ Polypropylene – chemical resistant

Hard-wearing/Durable cannot be awarded twice

Question 1(b)

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

- ◆ Extrusion – long uniform lengths
- ◆ Injection moulding – repeatable/quality surface finish/one piece production
- ◆ Piercing and Blanking – dimensional accuracy

Question 1(c)

The candidate was awarded **4 marks**.

- ◆ Physiology (3 marks) – comfort/grip statement
 - Easy to push statement
 - Design of wheelbarrow statement (large wheel)
- ◆ Psychology (1 mark) – whole statement on colour

Question 1(d)

The candidate was awarded **5 marks**.

- ◆ Ease of storage
- ◆ Easily transport goods
- ◆ Ease of cleaning
- ◆ Easy to manoeuvre
- ◆ Durability

(no marks awarded for safety considerations)

Question 1(e)

The candidate was awarded **3 marks**.

- ◆ Economies of scale (reduced costs)
- ◆ Lower skilled labour for assembly (reduces costs)
- ◆ No time wasted producing components
(final statement gives advantage to consumers)

Question 2(a)

The candidate was awarded **3 marks**.

- ◆ Available in large sheets
- ◆ Available in a range of veneers
- ◆ Stable material
- ◆ Cost effective compared to solid timber
- ◆ Suitable for manufacturing to these forms

Question 2(b)

The candidate was awarded **2 marks**.

- ◆ Surface finish
- ◆ Repeatability
- ◆ Accuracy

Question 2(c)

The candidate was awarded **3 marks**.

- ◆ Jigs and templates
- ◆ CAD/CNC
- ◆ JIT

Question 3(a)

The candidate was awarded **3 marks**.

- ◆ Hollow product
- ◆ Good surface finish
- ◆ Repeatability

Question 3(b)

The candidate was awarded **3 marks**.

- ◆ Correct material given with 3 correct given (durable/chemical resistant/range of colours)

Question 3(c)

The candidate was awarded **2 marks**.

- ◆ Non-toxic
- ◆ Hygienic easy to clean

Question 3(d)

The candidate was awarded **3 marks**

- ◆ Recycle/re-use material
- ◆ Reduce waste
- ◆ Energy source used

Question 4(a)

The candidate was awarded **3 marks**

- ◆ Durable
- ◆ Battery charging (secondary function)
- ◆ Portable

Question 4(b)

The candidate was awarded **1 mark** for the first statement in the answer (Ignore incorrect percentile).

Second statement does not reference a human dimension (0 marks)

Question 4(c)

The candidate was awarded **1 mark** for providing a basic answer.

Question 4(d)

The candidate was awarded **2 marks**.

- ◆ Customer loyalty
- ◆ Charge a higher price

Question 5(a)

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

Question 5(b)

The candidate was awarded **1 mark**.

- ◆ Disadvantage – high cost of external designer
(no clear explanation offered for advantage of an external designer)

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 the response displays a secure knowledge and understanding of aesthetics and some relevant points were made.

Total 59 marks