

Commentary on candidate evidence

The candidate evidence has achieved the following marks for each question of the question paper.

Candidate 6

Section 1

The candidate received **48 marks** out of 60 for this section.

Question 1(a)i

The candidate was awarded **1 mark** because 'Pine' is an accepted response.

Question 1(a)ii

The candidate was awarded **1 mark** because 'MDF is cheaper than softwoods' is an accepted response.

Question 1(b)i

The candidate was awarded **1 mark** because 'use a steel rule and pencil a mark out a cross 12mm down' is an accepted response.

Question 1(b)ii

The candidate was awarded **1 mark** because 'put a piece of tape on the drill bit with 15mm sticking out the end' is an accepted response.

Question 1(b)iii

The candidate was awarded **1 mark** because 'dovetail joint' is an accepted response.

Question 1(c)i

The candidate was awarded **1 mark** because 'pva' is an accepted response.

Question 1(c)ii

The candidate was awarded **1 mark** because 'clamp with vice' is an accepted response.

Question 1(c)iii

The candidate was awarded **2 marks** because 'brush in straight lines' and 'make sure an even coat is applied' are accepted responses.

Question 1(d)i

The candidate was awarded **1 mark** because 'coping saw' is an accepted response.

Question 1(d)ii

The candidate was awarded **2 marks** because the references to filing operations and the use of abrasive papers/cloth wool are accepted responses.

Question 1(e)i

The candidate was awarded **1 mark** because 'oak' is an accepted response.

Question 1(e)ii

The candidate was awarded **1 mark** because 'use wood plane on edges' is an accepted response.

Question 1(e)iii

The candidate was awarded **2 marks** because 'use a sharp chisel' and 'sand object on lathe' are accepted responses.

Question 1(f)

The candidate was awarded **2 marks** because 'join well to metals and woods' and 'very strong' are accepted responses.

Question 1(g)i

The candidate was awarded **2 marks** because 'scriber and mark out from top edge' and the sketch of the measuring are accepted responses.

Question 1(g)ii

The candidate was awarded **2 marks** because 'Use a steel working vice' and 'hammer to bend into shape' are accepted responses.

Question 1(g)iii

The candidate was awarded **2 marks** because 'to protect the mild steel from rusting' and 'nice feel to touch' are accepted responses.

Question 2(a)

The candidate was awarded **2 marks** because 'how heavy it is to carry' and 'how breathable it is' are accepted responses.

Question 2(b)

The candidate was awarded **3 marks** because 'create a questionnaire based on what people like in a tent', 'get a wide range of people to answer it' and 'gather information from questionnaire and use it to improve design' are accepted responses.

Question 3

The candidate was awarded **2 marks** as the candidate has described two different idea generation techniques with each description attracting 2 marks. Marks for this question can only be awarded to one description.

Question 4(a)

The candidate was awarded **0 marks** because 'to use idea generation easily' and 'can explore many different ideas quickly' are not accepted responses.

Question 4(b)

The candidate was awarded **2 marks** because 'make the model in 3d with the materials it is made from' and 'easily play with colour and material' are accepted responses.

Question 5

The candidate was awarded **2 marks** because 'the designer can easily see and feel their design' and 'whether or not it is big enough small enough' are accepted responses.

Question 6(a)

The candidate was awarded **2 marks** because 'comfortable so...the chair must mould to the shape and curvature of the spine' and 'arm rests must have curves as arms are not straight' are accepted responses.

Question 6(b)

The candidate was awarded **2 marks** because 'must fold away easily into a small package' and 'light as it will most likely be moved around' are accepted responses.

Question 6(c)

The candidate was awarded **1 mark** because 'use higher quality materials' is an accepted response.

Question 7(a)

The candidate was awarded **1 mark** because 'performance of a product is increased because of a new and better piece of tech' is an accepted response.

Question 7(b)

The candidate was awarded **1 mark** because 'market is demanding more of something in a product' is an accepted response.

Question 7(c)

The candidate was awarded **2 marks** because 'advertisement on tv' and 'influential testers to promote your new product' are accepted responses.

Question 8

The candidate was awarded **4 marks** because 'bright coloured', 'racing textures', 'chrome all of it making it more cool' and '50s style' are accepted responses.

Section 2

The candidate received **15 marks** out of 20 for this section.

Question 9(a)i

The candidate was awarded **2 marks** because 'cast iron' and 'strong' are accepted responses.

Question 9(a)ii

The candidate was awarded **1 mark** because 'Polypropylene' is an accepted response. No further marks can be awarded as 'stronger' is a repeat from part (i).

Question 9(b)

The candidate was awarded **0 marks** because the response is too vague (quick/cheap/easy).

Question 9(c)i

The candidate was awarded **1 mark** because 'casting' is an accepted response.

Question 9(c)ii

The candidate was awarded **1 mark** because 'injection moulding' is an accepted response.

Question 10(a)

The candidate was awarded **4 marks** because 'limit waste material', 'precise', 'fast' and 'repeatable' are accepted responses.

Question 10(b)

The candidate was awarded **2 marks** because 'become a throw away society' and 'less working industrial societies' are accepted responses.

Question 11(a)

The candidate was awarded **1 mark** because 'large profit margins' is an accepted response.

Question 11(b)

The candidate was awarded **3 marks** because 'Use renewable energy', 'reuse waste material' and 'dispose of waste responsibly' are accepted responses.

Total: 63 out of 80 marks