

Candidate 5

Section 1 - Total marks 50/60

Q1(a) (i)

The candidate was awarded **1 mark** because 'beech' is a correct response.

Q1(a) (ii)

The candidate was awarded **1 mark** because 'so the wood isn't too short' is a correct response.

Q1(a) (iii)

The candidate was awarded **1 mark** because 'parallel turning' is a correct response.

Q1(a) (iv)

The candidate was awarded **1 mark** because 'outside calipers' is a correct response.

Q1(b) (i)

The candidate was awarded **3 marks** because 'Cut Groove', 'Jack plane' and 'tenon saw' are correct responses.

Q1(b) (ii)

The candidate was awarded **0 marks** because the response is incorrect.

Q1(b) (iii)

The candidate was awarded **2 marks** because 'put a try square in the corner' and 'Measure corner to corner ...they are equal' are correct responses.

Q1(c) (i)

The candidate was awarded **2 marks** because 'comes in a sheet form' and 'easy to work' are correct responses.

Q1(c) (ii)

The candidate was awarded **2 marks** because 'Check Key is removed.' and 'guard is down securely.' are correct responses.

Q1(c) (iii)

The candidate was awarded **3 marks** because 'use a primer', 'Apply multiple coats' and 'Use spray paint ...no brush marks' are correct responses.

Q1(d)

The candidate was awarded **2 marks** because 'use a strip heater to melt the plastic' and 'fold it potentially using a template or jig.' are correct responses.

Q1(e) (i)

The candidate was awarded **1 mark** because 'easily accessible' is a correct response (referring to 'easy to source' in MIs).

Q1(e) (ii)

The candidate was awarded **3 marks** because 'engineers square and scribe to mark the centre lines.' and 'use dividers to mark the curve' are all correct responses.

Q1(e) (iii)

The candidate was awarded **2 marks** because 'majority of waste...removed via a Hacksaw' and 'shape it with a file.' are correct responses.

Q1(e) (iv)

The candidate was awarded **1 mark** because 'box folder and bend it' is a correct response.

Q2(a) (i)

The candidate was awarded **3 marks** because 'Create questionnaire with desired questions', 'Hand out questionnaire' and 'gather results' are correct responses.

Q2(a) (ii)

The candidate was awarded **0 marks** because the response is incorrect.

Q2(b)

The candidate was awarded **1 mark** because 'to have an end goal for the ideas' is a correct response.

Q2(c)

The candidate was awarded **2 marks** because 'think of what this brain storming session will be based upon' and 'form a team to do it.' are correct responses.

Q3(a)

The candidate was awarded **2 marks** because 'quick' and 'easily changed.' are correct responses.

Q3(b)

The candidate was awarded **2 marks** because 'what sizes to make the parts' and 'how to make the part and where it goes' are correct responses.

Q4

The candidate was awarded **3 marks** because 'think about what materials to use', 'visualise and contemplate the proportion' and 'test out the theory...see if it works' are correct responses.

Q5(a)

The candidate was awarded **2 marks** because 'design of the iron's handle...the users hand' and 'ironing board...waist height' are correct responses.

Q5(b)

The candidate was awarded **2 marks** because 'holding iron on the side of the board' and 'small shelf fore ironed clothes' are correct responses.

Q5(c)

The candidate was awarded **1 mark** because 'plastic which isn't a good conductor ... handle wouldn't get too warm.' is a correct response.

Q6(a)

The candidate was awarded **3 marks** because 'bright colours' and 'smooth texture' are correct responses. The marking instructions clarify that references such as 'different shape' and 'interesting' are awarded no marks.

Q6(b)

The candidate was awarded **2 marks** because 'brand is trusted' and 'it will get advertised' are correct responses.

Q6(c)

The candidate was awarded **2 marks** because 'special offer' and 'comes with a free song.' are correct responses.

Section 2 – Total marks 18/20**Q7(a) (i)**

The candidate was awarded **1 mark** because 'good weight' is a correct response.

Q7(a) (ii)

The candidate was awarded **1 mark** because 'will hold up the weight of the dumbbells.' is a correct response.

Q7(b)

The candidate was awarded **2 marks** because 'Surface of the metal is rough' and 'not a complex shape' are correct responses.

Q7(c)

The candidate was awarded **2 marks** because 'complex shape' and 'nice finish.' are correct responses.

Q7(d)

The candidate was awarded **2 marks** because 'rotational moulding' and 'creates hollow objects' are correct responses.

Q8(a)

The candidate was awarded **3 marks** because 'robots are used which take jobs', 'robots malfunction...more electricians and engineers needed to fix them.' (Skilled workforce) and 'products made are cheaper...more of them' are correct responses.

Q8(b)

The candidate was awarded **1 mark** because 'some products are too complex' is a correct response.

Q9

The candidate was awarded **2 marks** because 'if one breaks it is easy to replace' and 'Costs less to make the product...just order in standard components' are correct responses.

Q10

The candidate was awarded **4 marks** because 'use locally sourced materials', 'reduce the size of packaging', 'use recyclable materials' and 'for every tree they cut down they plant another' are correct responses.

Total marks – 69/80