

Candidate 1

The evidence for this candidate has achieved the following marks for each question of this course assessment component.

Question 1ai

The candidate was awarded **1 mark** because they identified the landscape which is relevant to the needs of the developer who may be concerned about rise or fall of ground.

Question 1aii

The candidate was awarded **0 marks** because graphic 3 is not an appropriate representation of what the development will look like or the surrounding area.

Question 1b

The candidate was awarded **0 marks** because '*animations could show what the community would be like*' is not enough detail in order to be awarded a mark, furthermore it is difficult to quantify the area to be a '*happy and friendly place*'.

Question 1c

The candidate was awarded **1 mark** because they made reference to the ground surface, which is relevant to the contours.

Question 1di

The candidate was awarded **2 marks** because there is reference to relevant materials and dimensions within Graphic 4 and an indication of construction within Graphic 3.

Question 1dii

The candidate was awarded **2 marks** because they correctly identified Graphic 1 showing the house layout and Graphic 5 showing how the finished house may look.

Question 1e

The candidate was awarded **2 marks** because they made reference to animation '*walk throughs*' and access to wider audience via '*advertisement on other different websites*'.

Question 1f

The candidate was awarded **1 mark** because they correctly described motion tweening calculating the frames in- between the start and end, however **0 marks** awarded for '*it's very quick and easy to use*'. This is not an acceptable level of response for Advanced Higher.

Question 1g

The candidate was awarded **1 mark** because they made reference to applied lighting and it being set up to illuminate rooms.

Question 1hi

The candidate was awarded **2 marks** because both texture mapping and bump mapping were correctly recognised within the image.

Question 1hii

The candidate was awarded **2 marks** because they identified that 'image based lighting' was used to create an environment. They also gained marks for identifying highlights and shadows suggesting a more realistic view.

Question 2a

The candidate was awarded **1 mark** because although they did not identify key aspects of the process, the candidate did acknowledge the appropriate mapping of coordinates to the printer.

Question 2bi

The candidate was awarded **1 mark** because in the later part of their response they refer to '*modification*' of the caravan.

Question 2bii

The candidate was awarded **1 mark** because they made reference to the construction of the caravan in their response.

Question 2c

The candidate was awarded **2 marks**.

- ◆ Finite Element Analysis (**1 mark**)
- ◆ Computational Fluid Dynamics (**1 mark**)

Question 2d

The candidate was awarded **1 mark** because their response relates to the customer making informed decisions.

Question 2e

The candidate was awarded **2 marks** because they have acknowledged the aesthetics and materials that would be used and they relate to the target market.

Question 2f

The candidate was awarded **1 mark** because they have acknowledged that the image can be into websites. High quality animation does not give enough detail to merit the second mark.

Question 2g

The candidate was awarded **0 marks** because they have responded with the same answers given within the previous question in which a mark was already awarded.

Question 3a

The candidate was awarded **3 marks**.

- ◆ *'smaller file size'* (1 mark)
- ◆ *'infinite zoom ... curve will stay smooth'* (1 mark)
- ◆ *'parameters ...modification'* (1 mark)

Question 3b

The candidate was awarded **1 mark** because they acknowledged RGB within their response.

NB: In order for candidates to achieve full marks they need to expand their answer to include its universal transference across other colour pallets.

Question 3c

The candidate was awarded **1 mark** because they correctly identified thickness of the paper mass.

Question 3d

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

Question 4a

The candidate was awarded **1 mark** because they referred to the recognisable and trusted brand.

Question 4b

The candidate was awarded **2 marks** because they acknowledge '*substandard products*' and '*unique brand*' (exclusivity) within their answer.

Question 4c

The candidate was awarded **4 marks**.

Target Market

'*fun and excitement*' (1 mark)

Colour

'colour green gives the idea of health and eco-friendliness' (1 mark)

'red colour reinforces brand identity' (1 mark)

Social responsibilities

'*green*' and '*healthier option*' (1 mark)

Question 5a

The candidate was awarded **3 marks** because they correctly acknowledged the M10 thread, the creation of an offset work plane (2mm) and construction of the 20mm fillet. Throughout this response there were a number of infidelities in terminology.

NB: Candidates must use the correct terms contained within the Course Assessment Specification (CAS).

Question 5b

The candidate was awarded **2 marks** because they created and described an appropriately dimensioned sketch, identifying the process of revolve to create the part including a detailed description of the sweep.

Question 5c

The candidate was awarded **0 marks** because they made little attempt to expand their response beyond drawing several circles.

NB: It should be noted that throughout Question 5 a, b and c, the candidates that gave a break down and structure to each step in the modelling process enabled clearer identification of marks. In this case all responses were a continuous paragraph of text with some sketches.

Question 5d

The candidate was awarded **0 marks** because they did not use the correct terms when identify steps in the process.

NB: Only the terms contained within the Course Assessment Specification (CAS) will be accepted in examinations.