

Commentary on candidate evidence

Assessors awarded the candidate evidence the following marks for each element of the question paper.

Candidate 1

The candidate was awarded a total of **58 out of 90 marks** as follows:

Question 1(a)

The candidate was awarded **2 marks** because they correctly explained how 'Digital software provides greater freedom with more precision and control over things such as colour and placement' as well as 'Edits can easily be made'.

Question 1(b)

The candidate was awarded **1 mark** because they correctly described the use of the 'pen tool to create a vector path' as well as the 'shape tool to fill in the area'. These two statements fall under the second point of the marking instructions.

Question 1(c)(i)

The candidate was awarded **1 mark** because they were able to describe that RGB and CMYK colour spaces are different but only makes one reference to 'Colours in RGB may not look the same when printed'. An additional mark could have been awarded had the candidate made a clearer distinction between the digital and printed applications of RGB and CMYK colours respectively.

Question 1(c)(ii)

The candidate was awarded **2 marks** because they correctly described how 'fonts are all displayed the same and at the same quality' which lines up with the marking instructions relating to text transferability/specific font as well as describing 'that if any scaling is done no quality is lost'.

Question 1(c)(iii)

The candidate was awarded **0 marks** because their response was too vague when describing the quality of the logo and not going into enough detail, therefore not demonstrating sufficient understanding, relating to the specific resolution requirements for printed and digital media.

Question 1(d)

The candidate was awarded **2 marks** because they correctly explained how protection rights 'prevent other people from using work they commissioned for free' and 'prevent the brand/company from being stolen/impersonated'.

Question 1(e)

The candidate was awarded **0 marks** because their responses were too vague in some instances (eg 'Ensure everything is aligned correctly') and did not go into enough detail to demonstrate understanding. The candidate could have gained marks for giving clear descriptions of the printing stages as detailed in the marking instructions.

Question 1(f)(i)

The candidate was awarded **1 mark** because they correctly identified the suitable file type.

Question 1(f)(ii)

The candidate was awarded **0 marks** because although their response makes reference to producing 'a path that the machine can follow', it did not make reference to the file being a vector format which would allow this to work.

Question 1(g)

The candidate was awarded **0 marks** because they have described using 'environmentally friendly inks' and 'a material more eco-friendly than plastic vinyl', but more detail is required to demonstrate understanding. The candidate could have

gained marks if they had described what types of inks or alternative substrates could be used as detailed in the marking instructions.

Question 2(a)

The candidate was awarded **2 marks** because they described using CFD 'to see the full range of airflow' and also using it to 'help with adding new vents or removing vents to ensure an optimal design'.

Question 2(b)

The candidate was awarded **1 mark** because they correctly described that 'Physical models do not need to be produced for each new design saving resources'.

Question 2(c)

The candidate was awarded **0 marks** because they did not demonstrate a sufficient understanding of polygons in their response.

Question 2(d)(i)

The candidate was awarded **2 marks** because they correctly described Image Based Lighting being 'used to show the reflection of the surroundings on the cars body' and Specularity involving 'bright shiny white reflections on the car body'. An additional mark could have been awarded if the candidate had described a specific lighting style as stated in the marking instructions.

Question 2(d)(ii)

The candidate was awarded **2 marks** because they described that 'A blur has been applied to the background and wheels...to make the car feel as if it is flying along the road very quickly'. As the marking instructions references the background and wheels as two separate points, having them both mentioned in the same sentence still gains the 2 marks.

Question 3(a)

The candidate was awarded **3 marks** because they correctly described stages 1, 3 and 4 of the modelling process with the correct terminology in line with the marking

instructions. An additional mark could have been gained if the candidate had mentioned the application of a line of symmetry in stage 2.

Question 3(b)

The candidate was awarded **5 marks** because they correctly described stages 1, 2, 3, 4 and 5 of the modelling process with the correct terminology in line with the marking instructions. An additional mark could have been gained in stage 6 had the candidate stated 2 repeats instead of '4'.

Question 3(c)

The candidate was awarded **6 marks** because they correctly described all four stages of the modelling process with the correct terminology in line with the marking instructions.

Question 3(d)

The candidate was awarded **3 marks** because they correctly explained the function of symbols B, C and D. An additional mark could have been gained for Symbol A if the candidate had specified that the symbol means that no material is to be removed on any surface as detailed in the marking instructions.

Question 3(e)

The candidate was awarded **3 marks** because they correctly described the following requirements:

- 'Fixed points'
- 'A force must be applied with direction and magnitude'
- 'Materials must be applied to appropriate parts'

Question 4(a)(i)

The candidate was awarded **1 mark** because they made reference to the town planners helping to 'plan when construction occurs for minimal disruption'. This is in line with the marking instructions: disruption to living etc and plan to manage this.

Question 4(a)(ii)

The candidate was awarded **2 marks** because they correctly explained how the conservation bodies 'Help conserve the original architecture' as well as 'Prevent any damages from occurring to existing structures or landscape'.

Question 4(a)(iii)

The candidate was awarded **2 marks** because they correctly explained that the quantity surveyor would 'figure out how many materials are required' and also 'plan for the cost of the project's materials'.

Question 4(b)(i)

The candidate was awarded **2 marks** because they correctly explained that the underground survey would show 'the materials of the ground below' and 'also help show existing or previous uses of the ground'.

Question 4(b)(ii)

The candidate was awarded **2 marks** because they correctly explained that the drainage survey would 'help with plumbing to show where pipes can be added to mains' and also used to 'show where water such as rain may collect to help add precautions to prevent flooding'.

Question 4(b)(iii)

The candidate was awarded **1 mark** because they correctly explained that the feature survey can 'show where existing manmade features are'.

Question 4(c)

The candidate was awarded **1 mark** because they correctly described the interior designer as someone who would 'Arrange furniture around to create the nicest looking rooms and to create space'. The second point relates more to the architect deciding 'where rooms go on the floor plan'.

Question 4(d)

The candidate was awarded **2 marks** because they described two advantages:

- 'allows interaction with surroundings such as walkthroughs to provide more realistic interactive experiences providing greater detail for clients'
- 'Allows for online viewings so people don't have to travel all the way to a property'

Question 5(a)

The candidate was awarded **4 marks** because they made four clear points for motion tweening and post-editing techniques:

- 'create intermediate frames...instead of every frame'
- 'Creates smoother animations as objects follow a path'
- 'Transitions can be added'
- 'Overlays can be added'

The candidate mentions 'subtitles' but this is the same as their overlays statement and 'soundtracks' is not a suitable answer as the post editing techniques are focused on visual edits for the animation.

Question 5(b)

The candidate was awarded **2 marks** because they correctly described how silhouettes 'have also been used on the arrows to help create a shape that helps point in the direction of scrolling' and that pace 'has been used on the size of the shrinking icons'.

Question 5(c)

The candidate was awarded **1 mark** because they correctly described that the golden ratio 'helps balance the layout using the ratio to control the size creating a balanced pleasing look'.

Question 5(d)

The candidate was awarded **2 marks** because they correctly described AVI as being 'accessible by most computers' and that '3gp can help with mobile devices'.