## **Storing Images**

1	A computer screen displays images using pixels.	
	a) Describe how the number of bits used per pixel affects the colours in an image.	
	b) How many bits per pixel would be needed for a pattern that uses 256 unique colours?	[2]
	c) Explain which of the following images would need the greatest number of bits to represent all of the pixels.	[1]
	1 bit is needed to represent either 0 (white) or 1 (black).  Image 1 Image 2 Image 3	
		[4]
	[Total 7	marks]
I	Duncan prints a 10 × 10 inch photograph with a resolution of 60 DPI.  DPI means Dots Per Inch or Pixels Per Inch	
a)	i) Define the term 'resolution'.	
		[1]
	ii) Calculate the total number of pixels in Duncan's photograph.	
	and the DDI would offer the image quality	[2]
b) I	Explain how decreasing the DPI would affect the image quality.	
		[2]
) E	Explain the purpose of metadata in an image file.	
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		[2