

[1 mark] How much memory, in bytes, is required to store an image that is 12 pixels high and 20 pixels wide? Each pixel can be displayed in one of 64 colours.

- (a) 180
- (b) 150
- (c) 1560
- (d) 1440
- (e) 1200

[1 mark] Which of the following statements are TRUE?

- I Compressing photographs using the PNG format results in a loss of image quality.
- II Compressing photographs using the JPEG format results in a loss of image quality.
- III Compressing graphics using the JPEG format results in a loss of image quality.
- IV Compressing graphics using the GIF format results in a loss of image quality.
- V The PNG format supports more colours than the GIF format.

- (a) I and II
- (b) I, IV and V
- (c) II, III and V
- (d) II and III
- (e) I, II and V

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[1 mark] Approximately how many bytes would it take to store a 16-colour bitmap image which is 800 pixels wide and 600 pixels high?

- (a) 180,000
- (b) 960,000
- (c) 240,000
- (d) 7,680,000
- (e) 1,920,000

[2 marks] Which of the following statements is TRUE?

- (a) The PNG format uses lossy compression.
- (b) Vector graphics are good for photographs.
- (c) The JPEG format uses lossless compression.
- (d) The GIF format supports animated images.
- (e) The GIF format supports 16 million colours.

[2 marks] If we reduce a 24-bit colour image that is 1 megabyte in size to 16 colours, what will be its new size?

- (a) 1/4 of a megabyte.
- (b) 1/16 of a megabyte.
- (c) 2/3 of a megabyte.
- (d) 1/6 of a megabyte.

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