

Quiz

Note: It is recommended that you save your response as you complete each question.

Subsection

Question 1 (2.5 points)



Which of the following is not the same as the others

- ☐ Image sampling rate
- ☐ Image sampling frequency
- ☐ Image dimension
- ☐ Image resolution
- ☐ Image brightness

Save

Question 2 (2.5 points)



Which is not the consequences of higher image resolution?

- ☐ more samples
- ☐ bigger file size
- ☐ bigger bit depth
- ☐ more image details
- ☐ none of the above

Save

Question 3 (2.5 points)



Color in nature is

- ☐ continuous
- ☐ discrete
- ☐ finite
- ☐ digital

Save

Question 4 (2.5 points)



Which of the following is not a consequence of image quantization?

- ☐ the number of allowed colors in the image is reduced;
- ☐ loss of the image fidelity and details;
- ☐ The details that rely on the subtle color differences are lost during quantization;
- ☐ Sampling rate is reduced

Save

Question 5 (2.5 points)



For a color image, a bit depth of 8 allows _____ different colors.

- ☐ 8
- ☐ 16
- ☐ 128
- ☐ 256
- ☐ 1024

Save

Question 6 (2.5 points)



The most common bit depth for color image is _____

- ☐ 8
- ☐ 16
- ☐ 24
- ☐ 32
- ☐ 256

Save

Question 7 (2.5 points)



Increasing the number of colors in the palette will definitely improve the image fidelity.

- ☐ True
- ☐ False

Save

Question 8 (2.5 points)



In the quantization step, to capture an analog image to a digital image, ____.

- ☐ a 2-dimensional grid is applied on the image and each tiny cell on the grid is converted into a pixel;
- ☐ a 2-dimensional grid is applied on the image to apply dithering to the image
- ☐ an infinite number of color shades and tones in an analog image is mapped to a set of discrete color values
- ☐ the resulting digital image file is compressed to have a smaller file size

Save

Question 9 (2.5 points)



A digital image captured at a higher resolution ____.

- ☐ captures more details than the same image stored at a lower resolution
- ☐ represents more colors than the same image stored at a lower resolution
- ☐ has greater bit depth than the same image stored at a lower resolution
- ☐ has a smaller file size than the same image stored at a lower resolution

Save

Question 10 (2.5 points)



If a digital image has a higher bit depth, ____ than it would have been at a lower bit depth.

- ☐ it has larger pixel dimensions
- ☐ it has more different colors
- ☐ a higher sampling rate is used
- ☐ it has larger image resolution

Save

Question 11 (2.5 points)



Rasterization means ____.

- ☐ converting vector graphics into pixel-based images
- ☐ converting pixel-based images into vector graphics
- ☐ converting regions into lines
- ☐ converting lines into regions

Save

Question 12 (2.5 points)



Vector graphics are composed of ____.

- ☐ individual pixels which represent spatial samples of the image or scene
- ☐ mathematical descriptions of image elements which include points, lines, curves, and figures
- ☐ both of the above
- ☐ none of the above

Save

Question 13 (2.5 points)



Which of the following is not one of the main advantages of vector graphics over bitmapped images?

- ☐ scalability
- ☐ ease of editing the image content pixel by pixel
- ☐ more compact file size
- ☐ resolution independence

Save

Question 14 (2.5 points)



Sometimes when you magnify a picture on your computer screen, lines that should be straight lines appear to be jagged. This effect is called _____

- ☐ anti-aliasing
- ☐ dithering
- ☐ aliasing
- ☐ indexing

Save

Question 15 (2.5 points)



Without applying any compression, what would be the file size for an image of 4000 X 3000 pixels in 24-bit color depth? Choose the closest one.

- ☐ 12MB
- ☐ 18MB
- ☐ 24MB
- ☐ 36MB
- ☐ 48MB

Save

Question 16 (2.5 points)



Which of the following images is better saved with a bit depth of 24?

- ☐ a picture taken by a camera
- ☐ a cartoon image drawn by an artist
- ☐ a logo designed for a company
- ☐ a poster that contains only a few colors

Save

Question 17 (2.5 points)



Which of the following is not a lossless compression method?

- ☐ TIFF
- ☐ JPEG
- ☐ PNG
- ☐ PSD
- ☐ GIF

Save

Question 18 (2.5 points)



Which of the following should not be used as working files for further editing?

- ☐ TIFF
- ☐ JPEG
- ☐ PSD
- ☐ PNG
- ☐ BMP

Save

Question 19 (2.5 points)



Generally speaking, how does the file size change if the total number of pixels of an image is doubled?

- ☐ no change
- ☐ doubled
- ☐ tripled
- ☐ decreased by half

Save

Question 20 (2.5 points)



Holding a ball painted with pure blue paint you enter a room that is lit with pure red and pure green colored light. What color does the ball

appear to be in this room?

- ☐ Blue
- ☐ Red
- ☐ Green
- ☐ Black
- ☐ White

Save

Question 21 (2.5 points)



Generally speaking, how does the file size change if the bit depth of an image is increased from 8-bit to 16-bit?

- ☐ no change
- ☐ doubled
- ☐ tripled
- ☐ four times

Save

Question 22 (2.5 points)



Which of the following file extensions indicates pixel-based files?

- ☐ TXT
- ☐ DOC
- ☐ PNG
- ☐ EPS

Save

Question 23 (2.5 points)



Which file extension indicates vector graphic files

- ☐ BMP
- ☐ TIFF
- ☐ GIF
- ☐ EPS
- ☐ PSD

Save

Question 24 (2.5 points)



Which of the following is the red color in RGB model?

- ☐ (0,0,0)
- ☐ (255,0,0)
- ☐ (0,255,0)
- ☐ (0,0,255)
- ☐ (255,255,255)

Save

Question 25 (2.5 points)



In RGB model, what would you get if the color Red is mixed with Cyan?

- ☐ Red
- ☐ Cyan
- ☐ Black
- ☐ White
- ☐ Yellow

Save

Question 26 (2.5 points)



Which of the following is the Magenta color in HSB model?

- ☐ (0, 100%, 100%)
- ☐ (300, 100%, 100%)
- ☐ (255, 0, 255)
- ☐ (0%, 100%, 0%)
- ☐ (60, 100%, 100%)

Save

Question 27 (2.5 points)



In RGB color model, what color would it be if the color Magenta is mixed with Black?

- ☐ Magenta
- ☐ Black
- ☐ White
- ☐ Blue
- ☐ Cyan

Save

Question 28 (2.5 points)



Which of the following is the white color in HSB model?

- ☐ (100, 100%, 100%)
- ☐ (0, 0%, 100%)
- ☐ (0, 100%, 100%)
- ☐ (360, 100%, 100%)
- ☐ None of the above

Save

Question 29 (2.5 points)



What is the hex form of the color (127, 12, 127) in RGB model?

- ☐ 7F0C7F
- ☐ 800C80
- ☐ 7F0B7F
- ☐ 7FC7F
- ☐ 8F0C8F

Save

Question 30 (2.5 points)



In RGB model, what would it be if white is mixed with black?

- ☐ white
- ☐ black
- ☐ gray
- ☐ light gray
- ☐ dark gray

Save

Question 31 (2.5 points)



In CMYK color model, what would it be if Cyan is mixed with Green?

- ☐ Cyan
- ☐ Green
- ☐ Black
- ☐ White
- ☐ Red

Save

Question 32 (2.5 points)



In CMYK color model, what color would it be if Red is mixed with Blue and Green?

- ☐ White
- ☐ Black
- ☐ Cyan
- ☐ Yellow
- ☐ Magenta

Save

Question 33 (2.5 points)



In CMYK color model, what color would it be if Black is mixed with White?

- ☐ Black
- ☐ White
- ☐ Gray
- ☐ Ligth Gray
- ☐ Dark Gray

Save

Question 34 (2.5 points)



In CMYK color model, what color would it be if Red is mixed with Blue?

- ☐ Red
- ☐ Blue
- ☐ Black
- ☐ White
- ☐ None of the above

Save

Question 35 (2.5 points)



Which of the following is not correct?

- ☐ RGB and CMYK Color Space encompass all the colors human can see
- ☐ Color Gamuts refer to the range of colors of a specific system or device can produce or capture
- ☐ Some of the colors that monitors can reproduce cannot be reproduced by inkjet printers.
- ☐ Monitors and inkjet printers cannot reproduce all the colors that human can see
- ☐ Some of the colors that inkjet printers can reproduce cannot be reproduced by monitors.

Save

Question 36 (2.5 points)



Which one of the following color models takes the form of a hexacone?

- ☐ RGB
- ☐ CMY
- ☐ HSB
- ☐ CIE XYZ

Save

Question 37 (2.5 points)



Which of the primaries in the HSB color model takes the form of a color wheel?

- ☐ Hue
- ☐ Saturation
- ☐ Brightness
- ☐ Darkness

Save

Question 38 (2.5 points)



Which of the following color model uses subtractive color mixing method?

- ☐ RGB
- ☐ CMY
- ☐ HSB
- ☐ CIE XYZ

Save

Question 39 (2.5 points)



What are the CMY values for white?

- ☐ (0%, 0%, 0%)
- ☐ (100%, 100%, 100%)
- ☐ (255,255,255)
- ☐ None of the above

Save

Question 40 (2.5 points)



What are the CMY values for red?

- ☐ (0%, 100%, 100%)
- ☐ (100%, 0%, 100%)
- ☐ (100%, 100%, 0%)
- ☐ (100%, 0%, 0%)
- ☐ None of the above

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Save All Responses

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