

# Quiz

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

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## Subsection

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### Question 1 (2.5 points)



Which of the following is not static image?

- ☐ PNG images
- ☐ GIF images
- ☐ BMP images
- ☐ JPEG images

Save

### Question 2 (2.5 points)



Which of the following is not linear media?

- ☐ Scroll
- ☐ textbook
- ☐ world wide web
- ☐ DVD

Save

### Question 3 (2.5 points)



Which of the following cannot be represented by numbers in computer?

- ☐ Image
- ☐ music
- ☐ video
- ☐ Game
- ☐ none of the above

Save

### Question 4 (2.5 points)



How many bits are there in one byte?

- ☐ 1
- ☐ 2
- ☐ 4
- ☐ 8
- ☐ 16

Save

**Question 5 (2.5 points)**



1 KB = \_\_\_\_\_ bytes?

- ☐ 100
- ☐ 1000
- ☐ 1024
- ☐ 8

Save

**Question 6 (2.5 points)**



Which of the following is digit information?

- ☐ Height of a person
- ☐ number of students in GGC
- ☐ Air pressure
- ☐ Frequency of a sound wave

Save

**Question 7 (2.5 points)**



Converting continuous information to digital data is done by

- ☐ Counting
- ☐ sampling
- ☐ computing
- ☐ calculating

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**Question 8 (2.5 points)**



Reconstructing continuous information from sampled digital data is done by

- ☐ Sampling and holding
- ☐ incorporating
- ☐ under-sampling
- ☐ super-sampling

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### Question 9 (2.5 points)



Digitization is the process of converting analog information into digital data that computers can handle. It is a 2-step process. One is sampling and the other step is

- ☐ Unitization
- ☐ Quantization
- ☐ Periodization
- ☐ Prioritization

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### Question 10 (2.5 points)



If not enough samples are taken in the digitization process, which one of the following is correct?

- ☐ small file size
- ☐ with good quantization, high quality representation can be achieved
- ☐ large file size
- ☐ faithful representation when replayed

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### Question 11 (2.5 points)



According to Nyquist rate, what sample rate would you need to use to be able to capture a frequency of 32,000 Hz?

- ☐ 16,000
- ☐ 32,000
- ☐ 64,000
- ☐ 1024

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### Question 12 (2.5 points)



You have a digitally sampled audio file that was sampled at 32,000 samples per second. What is the highest frequency that this sampled file can faithfully represent?

- ☐ 16,000
- ☐ 32,000
- ☐ 64,000
- ☐ 1024

Save

### Question 13 (2.5 points)



bit depth refers to

- ☐ how many inches a bit is
- ☐ the number of allowable levels you map (or round) the sample data to
- ☐ How deep a bit is
- ☐ The number of samples we can take

Save

### Question 14 (2.5 points)



Which of the following can reduce file size of digital media?

- ☐ decrease sampling rate
- ☐ save the data in flash drive
- ☐ increase bit depth
- ☐ apply encryption

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### Question 15 (2.5 points)



If you want to encode only 8 colors, what is the minimum number of bit(s) you need?

- ☐ 2
- ☐ 3
- ☐ 8
- ☐ 16
- ☐ 256

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### Question 16 (2.5 points)



Which of the following sizes is the largest?

- ☐ 1,000MB
- ☐ 100GB
- ☐ 10,000KB
- ☐ 1TB

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### Question 17 (2.5 points)



Most gray-scale images use 8-bit color. This means there can be \_\_\_\_\_ possible different gray tones in the image.

- ☐ 3
- ☐ 8
- ☐ 100
- ☐ 256
- ☐ 1024

Save

### Question 18 (2.5 points)



What is the decimal value of the binary number 1101

- ☐ 11
- ☐ 1101
- ☐ 13
- ☐ 111

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### Question 19 (2.5 points)



What is the binary number for decimal value 55?

- ☐ 110111
- ☐ 101011
- ☐ 100111
- ☐ 110011

Save

### Question 20 (2.5 points)



When counting in hexadecimal, what comes after F9?

- ☐ F10
- ☐ F0
- ☐ F16
- ☐ FA

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**Question 21** (2.5 points)



When counting in binary, what comes after 1101?

- ☐ 1100
- ☐ 1110
- ☐ 1111
- ☐ 1001

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**Question 22** (2.5 points)



What is the value in decimal for hex number 2C?

- ☐ 22
- ☐ 44
- ☐ 14
- ☐ 24

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**Question 23** (2.5 points)



What is the value in hex for given decimal value 200?

- ☐ A8
- ☐ B8
- ☐ C8
- ☐ D8
- ☐ none of the above

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**Question 24** (2.5 points)



What is the binary form for hex value E2?

- ☐ 1110 0010
- ☐ 1110 0011
- ☐ 1111 0010
- ☐ 1010 0010

Save

### Question 25 (2.5 points)



What is the hex form for binary value 1110 0101 1101 1011 ?

- ☐ A5DC
- ☐ E5DB
- ☐ E4BD
- ☐ A3FC

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### Question 26 (2.5 points)



How many things can you count with 4 hex digits?

- ☐ 128
- ☐ 16
- ☐ 1,024
- ☐ 65,536

Save

### Question 27 (2.5 points)



How many things can you count with 4 decimal digits?

- ☐ 16
- ☐ 100
- ☐ 1,000
- ☐ 10,000

Save

### Question 28 (2.5 points)



How many things can you count with 4 binary digits?

- ☐ 16
- ☐ 4
- ☐ 8
- ☐ 128

Save

**Question 29** (2.5 points)



How many characters can the ASCII code encode?

- ☐ 128
- ☐ 256
- ☐ 1024
- ☐ 65,536

Save

**Question 30** (2.5 points)



How many characters can the Unicode encode?

- ☐ 128
- ☐ 256
- ☐ 1024
- ☐ 65,536

Save

**Question 31** (2.5 points)



There are 10,000 characters in a text document that uses ASCII code to represent text characters. What is the file size of the text document?

- ☐ 1,000 Bytes
- ☐ 10,000 Bytes
- ☐ 100,000 Bytes
- ☐ 20,000 Bytes

Save

**Question 32** (2.5 points)



There are 10,000 characters in a text document that uses Unicode to represent text characters. What is the file size of the text document?



- ☐ 1,000 Bytes
- ☐ 10,000 Bytes
- ☐ 100,000 Bytes
- ☐ 20,000 Bytes

Save

### Question 33 (2.5 points)



Which of the following is not an example of lossy compression?

- ☐ JPEG
- ☐ MP3
- ☐ WinZip
- ☐ AVI

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### Question 34 (2.5 points)



Data will be lost or altered when you apply these strategies, except

- ☐ reduce sampling rate
- ☐ reduce bit depth
- ☐ apply lossy compression
- ☐ apply encryption

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### Question 35 (2.5 points)



Which of these strategies for reducing digital media size does not necessarily sacrifice the quality of the media file?

- ☐ reduce sampling rate
- ☐ reduce bit depth
- ☐ apply lossy compression
- ☐ apply lossless compression

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### Question 36 (2.5 points)



In general, if you want to keep a digital media file for further editing, you should \_\_\_\_\_.

- ☐ avoid applying lossy compression
- ☐ avoid applying lossless compression
- ☐ avoid applying encryption
- ☐ avoid making copies

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### Question 37 (2.5 points)



How big will a digital recording file be that is 1 minute 40 seconds long, sampled at 44,100 samples per second, with bit depth being 16 bits for each sample? Choose the closest one.

- ☐ 2.2MB
- ☐ 4.4MB
- ☐ 8.8MB
- ☐ 17.6MB

Save

### Question 38 (2.5 points)



How many seconds will it at least take to download your 100MB file from YouTube if your internet download speed is 10Mbps? Choose the closest one.

- ☐ 5
- ☐ 10
- ☐ 80
- ☐ 100
- ☐ 128

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### Question 39 (2.5 points)



How many seconds will it at least take to load your 8.0 MB file to YouTube if the upload speed of your internet connection is 2.0Mbps? Choose the closest one.

- ☐ 2
- ☐ 4
- ☐ 32
- ☐ 64

Save

**Question 40** (2.5 points)



A picture has 8M pixels. If each pixel needs 4 bytes, how big is the file size to save the picture without applying compression?

- ☐ 4MB
- ☐ 8MB
- ☐ 16MB
- ☐ 32MB
- ☐ 64MB

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Save All Responses

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