

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

**Module 01: Digital Content**

1. \_\_\_\_\_ refers to the symbols that represent people, events, things, and ideas.

ANSWER: Data

POINTS: 1

REFERENCES: DATA REPRESENTATION BASICS

QUESTION TYPE: Completion

HAS VARIABLES: False

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2. Data refers to the symbols that represent people, events, things, and ideas.

a. True

b. False

ANSWER: True

POINTS: 1

REFERENCES: DATA REPRESENTATION BASICS

QUESTION TYPE: True / False

HAS VARIABLES: False

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3. Data becomes \_\_\_\_\_ when it is presented in a format that people can understand and use.

ANSWER: information

POINTS: 1

REFERENCES: DATA REPRESENTATION BASICS

QUESTION TYPE: Completion

HAS VARIABLES: False

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4. Data \_\_\_\_\_ refers to the form in which data is stored, processed, and transmitted.

ANSWER: representation

POINTS: 1

REFERENCES: DATA REPRESENTATION BASICS

QUESTION TYPE: Completion

HAS VARIABLES: False

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DATE MODIFIED: 7/31/2017 11:11 AM

5. Digital data can be \_\_\_\_\_ that have been converted into discrete digits such as 0s and 1s.

a. text

b. numbers

c. graphics, sound, and video

d. all of the above

**Module 01: Digital Content**

ANSWER: d  
POINTS: 1  
REFERENCES: DATA REPRESENTATION BASICS  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 7/31/2017 11:33 AM  
DATE MODIFIED: 7/31/2017 11:34 AM

6. The process of converting information, such as text, numbers, photos, or music, into digital data that can be manipulated by electronic devices is called \_\_\_\_\_.

- a. binary
- b. digitization
- c. representation
- d. none of the above

ANSWER: b  
POINTS: 1  
REFERENCES: DATA REPRESENTATION BASICS  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 7/31/2017 11:34 AM  
DATE MODIFIED: 7/31/2017 11:35 AM

7. A file name extension indicates the file format.

- a. True
- b. False

ANSWER: True  
POINTS: 1  
REFERENCES: DATA REPRESENTATION BASICS  
QUESTION TYPE: True / False  
HAS VARIABLES: False  
DATE CREATED: 7/31/2017 11:35 AM  
DATE MODIFIED: 7/31/2017 11:36 AM

8. The 0s and 1s used to represent digital data are referred to as \_\_\_\_\_ digits.

ANSWER: binary  
POINTS: 1  
REFERENCES: DATA REPRESENTATION BASICS  
QUESTION TYPE: Completion  
HAS VARIABLES: False  
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9. \_\_\_\_\_ data consists of numbers that can be used in arithmetic operations.

**Module 01: Digital Content**

- a. Text
- b. Digital
- c. Numeric
- d. Binary

ANSWER: c

POINTS: 1

REFERENCES: REPRESENTING NUMBERS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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10. The binary number system has only two digits: 1 and 2.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: REPRESENTING NUMBERS

QUESTION TYPE: True / False

HAS VARIABLES: False

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11. The \_\_\_\_\_ number system allows digital devices to represent virtually any number simply by using 0s and 1s.

- a. digital
- b. text
- c. numeric
- d. binary

ANSWER: d

POINTS: 1

REFERENCES: REPRESENTING NUMBERS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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12. Character data is composed of letters, symbols, and numerals that are used in calculations.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: REPRESENTING TEXT

QUESTION TYPE: True / False

**Module 01: Digital Content**

*HAS VARIABLES:* False

*DATE CREATED:* 7/31/2017 11:45 AM

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13. American Standard Code for Information Interchange (ASCII) requires \_\_\_\_\_ bits for each character.

- a. two
- b. six
- c. seven
- d. ten

*ANSWER:* c

*POINTS:* 1

*REFERENCES:* REPRESENTING TEXT

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 7/31/2017 11:45 AM

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14. Unicode uses \_\_\_\_\_ bits and provides codes for 65,000 characters.

- a. seven
- b. eight
- c. ten
- d. sixteen

*ANSWER:* d

*POINTS:* 1

*REFERENCES:* REPRESENTING TEXT

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 7/31/2017 11:47 AM

*DATE MODIFIED:* 7/31/2017 11:48 AM

15. Plain, unformatted text is sometimes called ASCII text.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* REPRESENTING TEXT

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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*DATE MODIFIED:* 7/31/2017 11:49 AM

16. ASCII text files contain formatting.

- a. True

**Module 01: Digital Content**

b. False

ANSWER: False

POINTS: 1

REFERENCES: REPRESENTING TEXT

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 7/31/2017 11:50 AM

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17. In a formatted text file, \_\_\_\_\_ signal(s) the beginning and end of a formatting command.

ANSWER: delimiter, delimiters

POINTS: 1

REFERENCES: REPRESENTING TEXT

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 7/31/2017 11:51 AM

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18. All of the data stored and transmitted by digital devices is encoded as bits.

a. True

b. False

ANSWER: True

POINTS: 1

REFERENCES: BITS AND BYTES

QUESTION TYPE: True / False

HAS VARIABLES: False

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19. A group of eight bits is called a \_\_\_\_\_.

a. byte

b. megabit

c. binary

d. numeric data

ANSWER: a

POINTS: 1

REFERENCES: BITS AND BYTES

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/31/2017 11:54 AM

DATE MODIFIED: 7/31/2017 11:55 AM

20. Transmission speeds are expressed in \_\_\_\_\_, whereas storage space is expressed in \_\_\_\_\_.

**Module 01: Digital Content**

- a. bits, bytes
- b. bytes, bits
- c. binary, numeric
- d. none of the above

ANSWER: a

POINTS: 1

REFERENCES: BITS AND BYTES

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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21. Data \_\_\_\_\_ refers to any technique that recodes the data in a file so that it contains fewer bits.

ANSWER: compression

POINTS: 1

REFERENCES: COMPRESSION

QUESTION TYPE: Completion

HAS VARIABLES: False

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22. Lossy compression provides a way to compress data and reconstitute it into its original state.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: COMPRESSION

QUESTION TYPE: True / False

HAS VARIABLES: False

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23. Lossy compression throws away some of the original data during the compression process.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: COMPRESSION

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 7/31/2017 11:59 AM

DATE MODIFIED: 7/31/2017 12:00 PM

**Module 01: Digital Content**

24. Compressed files often have \_\_\_\_\_ at the end of the file name.

- a. .exe
- b. .zip
- c. .txt
- d. none of the above

ANSWER: b

POINTS: 1

REFERENCES: COMPRESSION

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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25. \_\_\_\_\_ is music, speech, and other sounds represented in binary format for use in digital devices.

- a. MIDI (Musical Instrument Digital Interface)
- b. Speech recognition
- c. Speech synthesis
- d. Digital audio

ANSWER: d

POINTS: 1

REFERENCES: DIGITAL AUDIO BASICS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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26. To digitally record sound, \_\_\_\_\_ of a sound wave is/are collected at periodic intervals and stored as numeric data in an audio file.

ANSWER: samples, sample, sampling

POINTS: 1

REFERENCES: DIGITAL AUDIO BASICS

QUESTION TYPE: Completion

HAS VARIABLES: False

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27. Sampling \_\_\_\_\_ refers to the number of times per second that a sound is measured during the recording process.

- a. rate
- b. compression
- c. depth
- d. sound

ANSWER: a

POINTS: 1

**Module 01: Digital Content**

*REFERENCES:* DIGITAL AUDIO BASICS

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

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28. To conserve space, applications that require high-quality sound use low sampling rates.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* DIGITAL AUDIO BASICS

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 7/31/2017 12:09 PM

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29. Regardless of sampling rate, digital audio file size can be reduced using audio compression techniques.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* DIGITAL AUDIO BASICS

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 7/31/2017 12:11 PM

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30. Most music for portable media players is stored in \_\_\_\_\_ audio file formats.

- a. uncompressed
- b. compressed
- c. lossless
- d. zipped

*ANSWER:* b

*POINTS:* 1

*REFERENCES:* DIGITAL AUDIO FILE FORMATS

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 7/31/2017 12:13 PM

*DATE MODIFIED:* 7/31/2017 12:15 PM

31. Digital audio is stored in a variety of file formats, including \_\_\_\_\_.

- a. WMA (Windows Media Audio)

**Module 01: Digital Content**

- b. WAV
- c. MP3
- d. all of the above

ANSWER: d

POINTS: 1

REFERENCES: DIGITAL AUDIO FILE FORMATS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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32. Which of the following is NOT a format that is used for digital audio?

- a. MP3
- b. DOC
- c. WAV
- d. Ogg

ANSWER: b

POINTS: 1

REFERENCES: DIGITAL AUDIO FILE FORMATS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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33. A(n) \_\_\_\_\_ is software that works in conjunction with your computer's browser to manage and play audio that you are accessing from a Web page.

ANSWER: audio plugin

POINTS: 1

REFERENCES: DIGITAL AUDIO FILE FORMATS

QUESTION TYPE: Completion

HAS VARIABLES: False

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34. The technical term for ripping music tracks is *digital audio extraction*.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: DIGITAL AUDIO FILE FORMATS

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 7/31/2017 12:26 PM

**Module 01: Digital Content**

*DATE MODIFIED:* 7/31/2017 12:26 PM

35. \_\_\_\_\_ specifies a standard way to store music data for synthesizers and computers.

*ANSWER:* MIDI

*POINTS:* 1

*REFERENCES:* MIDI

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/31/2017 12:27 PM

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36. MIDI files are less compact than digital audio files.

a. True

b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* MIDI

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 7/31/2017 12:28 PM

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37. One of the main disadvantages of MIDI is that it cannot produce vocals.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* MIDI

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:11 AM

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38. \_\_\_\_\_ enables people to control software with spoken commands, as well as dictate text into a word processing document.

a. MIDI

b. Speech synthesis

c. Speech recognition

d. Phoneme

*ANSWER:* c

*POINTS:* 1

*REFERENCES:* DIGITIZED SPEECH

*QUESTION TYPE:* Multiple Choice

**Module 01: Digital Content**

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:12 AM

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39. \_\_\_\_\_ is the process by which machines produce sound that resembles spoken words.

*ANSWER:* Speech synthesis

*POINTS:* 1

*REFERENCES:* DIGITIZED SPEECH

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:13 AM

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40. Text-to-speech software analyzes the words in a section of text, finds corresponding phonemes, and combines them into sentences for output.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* DIGITIZED SPEECH

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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41. Speech recognition software analyzes the sounds of your voice and converts each word into groups of \_\_\_\_\_.

*ANSWER:* phonemes, phoneme

*POINTS:* 1

*REFERENCES:* DIGITIZED SPEECH

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:15 AM

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42. A bitmap graphic is composed of a grid of tiny rectangular cells.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* BITMAP BASICS

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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**Module 01: Digital Content**

*DATE MODIFIED:* 8/1/2017 8:16 AM

43. Digital photographs are stored as bitmap files.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* BITMAP BASICS

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:17 AM

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44. In a digital camera, a charge-coupled device's (CCD's) \_\_\_\_\_ correspond(s) to pixels.

*ANSWER:* photosites, photosite

*POINTS:* 1

*REFERENCES:* BITMAP BASICS

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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45. Which of the following is NOT a type of bitmap format?

a. TIFF (Tagged Image File Format)

b. RAW

c. PNG (Portable Network Graphics)

d. ZIP

*ANSWER:* d

*POINTS:* 1

*REFERENCES:* BITMAP BASICS

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:18 AM

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46. Bitmap images are formed by a grid of \_\_\_\_.

*ANSWER:* pixels

*POINTS:* 1

*REFERENCES:* BITMAP DATA REPRESENTATION

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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*DATE MODIFIED:* 8/1/2017 8:20 AM

**Module 01: Digital Content**

47. Today's color display devices represent color using the \_\_\_\_\_ color model.

- a. RGB
- b. PNG
- c. BMP
- d. none of the above

ANSWER: a

POINTS: 1

REFERENCES: BITMAP DATA REPRESENTATION

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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48. The number of colors available in a graphic is referred to as color \_\_\_\_\_.

- a. depth
- b. range
- c. RGB
- d. PNG

ANSWER: a

POINTS: 1

REFERENCES: BITMAP DATA REPRESENTATION

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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49. Eight-bit color depth is also called True Color.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: BITMAP DATA REPRESENTATION

QUESTION TYPE: True / False

HAS VARIABLES: False

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50. The dimensions of the grid that forms a bitmap graphic are referred to as image \_\_\_\_\_.

ANSWER: resolution

POINTS: 1

REFERENCES: BITMAP DATA REPRESENTATION

QUESTION TYPE: Completion

**Module 01: Digital Content**

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:25 AM

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51. Bitmap graphics are resolution dependent because each element is a discrete pixel.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* BITMAP DATA REPRESENTATION

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:35 AM

*DATE MODIFIED:* 8/1/2017 8:36 AM

52. An undesirable jagged appearance of a graphics image is referred to as \_\_\_\_\_.

*ANSWER:* pixelation

*POINTS:* 1

*REFERENCES:* BITMAP DATA REPRESENTATION

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:39 AM

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53. Most graphics software uses a process called pixel \_\_\_\_\_ to create new pixels by averaging the colors of nearby pixels.

a. polarization

b. interpolation

c. compression

d. resolution

*ANSWER:* b

*POINTS:* 1

*REFERENCES:* BITMAP DATA REPRESENTATION

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 8:41 AM

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54. Image \_\_\_\_\_ refers to any technique that recodes the data in an image file so that it contains fewer bits.

*ANSWER:* compression

*POINTS:* 1

*REFERENCES:* IMAGE COMPRESSION

*QUESTION TYPE:* Completion

**Module 01: Digital Content**

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 9:35 AM

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55. TIFF, PNG, and GIF (Graphics Interchange Format) graphics formats offer lossy compression.

a. True

b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* IMAGE COMPRESSION

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 9:36 AM

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56. Joint Photographic Experts Group (JPEG) files are compressed using lossy compression.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* IMAGE COMPRESSION

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 9:39 AM

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57. Lossy compression techniques discard some data from an image to shrink its file size.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* IMAGE COMPRESSION

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 9:40 AM

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58. Bitmap graphics are coded as a series of bits. Each bit represents the color of one \_\_\_\_\_.

*ANSWER:* pixel

*POINTS:* 1

*REFERENCES:* MODIFYING BITMAP IMAGES

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

**Module 01: Digital Content**

*DATE CREATED:* 8/1/2017 9:41 AM

*DATE MODIFIED:* 8/1/2017 9:42 AM

59. Image editors provide an image \_\_\_\_\_ that can be used to adjust the brightness values for various ranges of dark, mid-range, or light pixels.

*ANSWER:* histogram

*POINTS:* 1

*REFERENCES:* MODIFYING BITMAP IMAGES

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 9:42 AM

*DATE MODIFIED:* 8/1/2017 9:43 AM

60. In the context of bitmap graphics editing, what technique employs algorithms that pull pixels from one area of an image and then apply them to another area?

- a. Inpainting
- b. Cloning
- c. Noise reduction
- d. Image enhancement

*ANSWER:* b

*POINTS:* 1

*REFERENCES:* MODIFYING BITMAP IMAGES

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 9:43 AM

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61. A clipping \_\_\_\_\_ essentially cuts an object out of an image and knocks out the background to make it transparent.

*ANSWER:* path

*POINTS:* 1

*REFERENCES:* MODIFYING BITMAP IMAGES

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 9:46 AM

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62. What is the term used to describe altering the pixel colors where the edges of the object and the background meet, so that the object appears to merge with the background?

- a. Alpha blending
- b. Clipping path
- c. Cloning
- d. Inpainting

*ANSWER:* a

*POINTS:* 1

**Module 01: Digital Content**

**REFERENCES:** MODIFYING BITMAP IMAGES

**QUESTION TYPE:** Multiple Choice

**HAS VARIABLES:** False

**DATE CREATED:** 8/1/2017 9:47 AM

**DATE MODIFIED:** 8/1/2017 9:48 AM

63. A vector graphic consists of a set of instructions for creating a picture.

a. True

b. False

**ANSWER:** True

**POINTS:** 1

**REFERENCES:** VECTOR GRAPHICS BASICS

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

**DATE CREATED:** 8/1/2017 9:49 AM

**DATE MODIFIED:** 8/1/2017 9:49 AM

64. Instead of storing the color value for each pixel, a vector graphics file contains instructions that a computer uses to create the shape, size, position, and color for each object in an image.

a. True

b. False

**ANSWER:** True

**POINTS:** 1

**REFERENCES:** VECTOR GRAPHICS BASICS

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

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65. When you change the size of a(n) \_\_\_\_\_ graphic, the objects change proportionally and maintain their smooth edges.

**ANSWER:** vector

**POINTS:** 1

**REFERENCES:** VECTOR GRAPHICS BASICS

**QUESTION TYPE:** Completion

**HAS VARIABLES:** False

**DATE CREATED:** 8/1/2017 9:51 AM

**DATE MODIFIED:** 8/1/2017 9:52 AM

66. Vector graphics file size does not depend on the size and complexity of the image.

a. True

b. False

**ANSWER:** False

**Module 01: Digital Content**

*POINTS:* 1  
*REFERENCES:* VECTOR GRAPHICS BASICS  
*QUESTION TYPE:* True / False  
*HAS VARIABLES:* False  
*DATE CREATED:* 8/1/2017 9:52 AM  
*DATE MODIFIED:* 8/1/2017 9:53 AM

67. Which of the following options are well suited for using vector graphics?

- a. Line art
- b. Logos
- c. Diagrams
- d. All of the above

*ANSWER:* d  
*POINTS:* 1  
*REFERENCES:* VECTOR GRAPHICS BASICS  
*QUESTION TYPE:* Multiple Choice  
*HAS VARIABLES:* False  
*DATE CREATED:* 8/1/2017 9:54 AM  
*DATE MODIFIED:* 8/1/2017 9:55 AM

68. All bitmap graphics are photos.

- a. True
- b. False

*ANSWER:* False  
*POINTS:* 1  
*REFERENCES:* VECTOR GRAPHICS BASICS  
*QUESTION TYPE:* True / False  
*HAS VARIABLES:* False  
*DATE CREATED:* 8/1/2017 9:55 AM  
*DATE MODIFIED:* 8/1/2017 9:56 AM

69. Which of the following file extensions is NOT a vector graphic?

- a. .svg
- b. .eps
- c. .tif
- d. .ai

*ANSWER:* c  
*POINTS:* 1  
*REFERENCES:* VECTOR GRAPHICS BASICS  
*QUESTION TYPE:* Multiple Choice  
*HAS VARIABLES:* False  
*DATE CREATED:* 8/1/2017 9:56 AM  
*DATE MODIFIED:* 8/1/2017 9:57 AM

**Module 01: Digital Content**

70. Both scanners and digital cameras produce vector graphics.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: VECTOR TOOLS

QUESTION TYPE: True / False

HAS VARIABLES: False

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71. What is another term for vector graphics software?

- a. Drawing software
- b. Photo editing software
- c. Digital compositing
- d. All of the above

ANSWER: a

POINTS: 1

REFERENCES: VECTOR TOOLS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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72. A vector graphic can be converted into a bitmap graphic through a process called \_\_\_\_\_.

ANSWER: rasterizing, rasterization

POINTS: 1

REFERENCES: VECTOR TOOLS

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:00 AM

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73. After a vector graphic is converted to a bitmap, the resulting graphic no longer has the qualities of a vector graphic.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: VECTOR TOOLS

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:02 AM

**Module 01: Digital Content**

*DATE MODIFIED:* 8/1/2017 10:03 AM

74. 3D graphics are based on vectors stored as a set of instructions describing the coordinates for lines and shapes in a three-dimensional space. What do these vectors form?

- a. A bitmap graphic
- b. A zipped file
- c. A wireframe
- d. All of the above

*ANSWER:* c

*POINTS:* 1

*REFERENCES:* 3D GRAPHICS

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:03 AM

*DATE MODIFIED:* 8/1/2017 10:04 AM

75. The process of covering a wireframe with surface color and texture is called \_\_\_\_\_.

*ANSWER:* rendering, render

*POINTS:* 1

*REFERENCES:* 3D GRAPHICS

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:05 AM

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76. Which of the following is the technique for adding light and shadows to a 3D image?

- a. Rendering
- b. Ray tracing
- c. Wireframe
- d. Rasterize

*ANSWER:* b

*POINTS:* 1

*REFERENCES:* 3D GRAPHICS

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:06 AM

*DATE MODIFIED:* 8/1/2017 10:07 AM

77. 3D graphics can be animated.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

**Module 01: Digital Content**

REFERENCES: 3D GRAPHICS

QUESTION TYPE: True / False

HAS VARIABLES: False

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78. Which of the following tools would be found in 3D graphics software?

- a. Rendering tools
- b. Ray tracing tools
- c. Surface texture tools
- d. All of the above

ANSWER: d

POINTS: 1

REFERENCES: 3D GRAPHICS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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79. Digital video uses bits to store color and brightness data for each video frame.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: DIGITAL VIDEO BASICS

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:11 AM

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80. Analog footage can be digitized using video \_\_\_\_\_ equipment.

ANSWER: capture

POINTS: 1

REFERENCES: DIGITAL VIDEO BASICS

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:12 AM

DATE MODIFIED: 8/1/2017 10:13 AM

81. Digital \_\_\_\_\_ captures moving images as bits, rather than on film.

ANSWER: cinematography

POINTS: 1

REFERENCES: DIGITAL VIDEO BASICS

**Module 01: Digital Content**

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:13 AM

*DATE MODIFIED:* 8/1/2017 10:15 AM

82. Digital video is a core technology for which of the following?

- a. Digital television
- b. Videoconferencing systems
- c. Video messaging
- d. All of the above

*ANSWER:* d

*POINTS:* 1

*REFERENCES:* DIGITAL VIDEO BASICS

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:17 AM

*DATE MODIFIED:* 8/1/2017 10:17 AM

83. Which of the following is NOT a factor in the quality of digital video?

- a. Frame rate and resolution
- b. Color and bit depth
- c. Compression technique
- d. Memory technology in your camera

*ANSWER:* d

*POINTS:* 1

*REFERENCES:* DIGITAL VIDEO BASICS

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:18 AM

*DATE MODIFIED:* 8/1/2017 10:19 AM

84. In digital video, each bitmap image is referred to as a(n) \_\_\_\_\_.

*ANSWER:* frame

*POINTS:* 1

*REFERENCES:* DIGITAL VIDEO BASICS

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:19 AM

*DATE MODIFIED:* 8/1/2017 10:20 AM

85. The number of frames that are displayed per second is measured in \_\_\_\_\_.

- a. compression
- b. fps

**Module 01: Digital Content**

c. color depth

d. bps

ANSWER: b

POINTS: 1

REFERENCES: DIGITAL VIDEO BASICS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:21 AM

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86. Digital videos look sharpest when they are displayed at a resolution that is larger than the frame size.

a. True

b. False

ANSWER: False

POINTS: 1

REFERENCES: DIGITAL VIDEO BASICS

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:22 AM

DATE MODIFIED: 8/1/2017 10:23 AM

87. Video resolutions can be expressed as width x height.

a. True

b. False

ANSWER: True

POINTS: 1

REFERENCES: DIGITAL VIDEO BASICS

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:23 AM

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88. Today's widescreen devices, such as laptops and smartphones, are designed for the 16:9 \_\_\_\_\_.

a. resolution

b. aspect ratio

c. frame rate

d. all of the above

ANSWER: b

POINTS: 1

REFERENCES: DIGITAL VIDEO BASICS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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**Module 01: Digital Content**

*DATE MODIFIED:* 8/1/2017 10:26 AM

89. When 4:3 videos are displayed in a widescreen player, they are bordered by the black bars of a(n) \_\_\_\_\_.

*ANSWER:* letterbox

*POINTS:* 1

*REFERENCES:* DIGITAL VIDEO BASICS

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:27 AM

*DATE MODIFIED:* 8/1/2017 10:27 AM

90. In digital video, as long as the proportion of horizontal and vertical pixels remains the same, the aspect ratio is consistent.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* DIGITAL VIDEO BASICS

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:28 AM

*DATE MODIFIED:* 8/1/2017 10:29 AM

91. \_\_\_\_\_ is the number of bits that are processed during a specific unit of time, usually during one second.

a. Bit rate

b. Bit depth

c. Color depth

d. None of the above

*ANSWER:* a

*POINTS:* 1

*REFERENCES:* DIGITAL VIDEO BASICS

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:29 AM

*DATE MODIFIED:* 8/1/2017 10:30 AM

92. Bit rate can be scaled down by reducing the resolution and applying \_\_\_\_\_ techniques.

*ANSWER:* compression

*POINTS:* 1

*REFERENCES:* VIDEO COMPRESSION

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:31 AM

**Module 01: Digital Content**

*DATE MODIFIED:* 8/1/2017 10:32 AM

93. In digital video, a lower resolution reduces the bit rate.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* VIDEO COMPRESSION

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:32 AM

*DATE MODIFIED:* 8/1/2017 10:33 AM

94. \_\_\_\_\_ compression can be applied to each frame of a video.

*ANSWER:* Intraframe

*POINTS:* 1

*REFERENCES:* VIDEO COMPRESSION

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:34 AM

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95. \_\_\_\_\_ compression stores only the pixels that change color from one frame to the next.

*ANSWER:* Interframe

*POINTS:* 1

*REFERENCES:* VIDEO COMPRESSION

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:35 AM

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96. Video compression can be expressed as a compression \_\_\_\_\_.

*ANSWER:* ratio

*POINTS:* 1

*REFERENCES:* VIDEO COMPRESSION

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 10:36 AM

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97. A(n) \_\_\_\_\_ is the software that compresses a video stream when a video is stored and decompresses the file when the video is played.

a. compression

b. codec

**Module 01: Digital Content**

- c. bitmap
- d. resolution

ANSWER: b  
POINTS: 1  
REFERENCES: VIDEO COMPRESSION  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 10:42 AM  
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98. Video files are stored in \_\_\_\_\_ formats that hold the compressed video stream and an audio stream.

ANSWER: container  
POINTS: 1  
REFERENCES: VIDEO FILE FORMATS  
QUESTION TYPE: Completion  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 10:48 AM  
DATE MODIFIED: 8/1/2017 10:49 AM

99. Which of the following is NOT a type of digital video container file?

- a. MP4
- b. AVI
- c. VOB (Video Object)
- d. PNG

ANSWER: d  
POINTS: 1  
REFERENCES: VIDEO FILE FORMATS  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 10:50 AM  
DATE MODIFIED: 8/1/2017 10:51 AM

100. Transcoding digital videos does not cause a loss of quality.

- a. True
- b. False

ANSWER: False  
POINTS: 1  
REFERENCES: VIDEO FILE FORMATS  
QUESTION TYPE: True / False  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 10:51 AM  
DATE MODIFIED: 8/1/2017 10:53 AM

**Module 01: Digital Content**

101. A live stream is also called a(n) \_\_\_\_\_.

- a. download
- b. Webcast
- c. on-demand stream
- d. digital audio extraction

ANSWER: b

POINTS: 1

REFERENCES: DIGITAL AUDIO FILE FORMATS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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102. A(n) \_\_\_\_\_ stream sends media to a local device where it is stored temporarily, or “buffered,” until there is enough data to begin playback.

- a. download
- b. live
- c. on-demand
- d. delayed

ANSWER: c

POINTS: 1

REFERENCES: DIGITAL AUDIO FILE FORMATS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:57 AM

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103. Image \_\_\_\_\_ creates a panoramic image by combining two or more photographs that have overlapping edges.

- a. stitching
- b. compression
- c. cropping
- d. compositing

ANSWER: a

POINTS: 1

REFERENCES: PANORAMIC AND 360 IMAGES

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 8/1/2017 10:58 AM

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104. Manipulating two-dimensional images to produce the illusion of three-dimensional depth is called \_\_\_\_\_.

**Module 01: Digital Content**

- a. pairing
- b. stitching
- c. stereoscopy
- d. dimensionization

ANSWER: c  
POINTS: 1  
REFERENCES: STEREOSCOPY  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 11:00 AM  
DATE MODIFIED: 8/1/2017 11:01 AM

105. A(n) \_\_\_\_\_ is a graphic that uses red and blue overlays to create a stereoscopic effect.

- a. stereo pair
- b. anaglyph
- c. VOB
- d. JPEG

ANSWER: b  
POINTS: 1  
REFERENCES: STEREOSCOPY  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 11:02 AM  
DATE MODIFIED: 8/1/2017 11:03 AM

106. Which of the following projections captures a 360-degree image on a horizontal plane?

- a. Rectilinear
- b. Cylindrical
- c. Spherical
- d. Anaglyphic

ANSWER: b  
POINTS: 1  
REFERENCES: PANORAMIC AND 360 IMAGES  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 11:03 AM  
DATE MODIFIED: 8/1/2017 11:05 AM

107. \_\_\_\_\_ adds computer-generated vector objects to a view of the real world.

- a. Augmented reality
- b. Cylindrical projection
- c. Virtual reality
- d. Stereoscopy

**Module 01: Digital Content**

ANSWER: a  
POINTS: 1  
REFERENCES: 3D GRAPHICS  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 11:05 AM  
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108. Pokemon Go is a game that's based on \_\_\_\_\_ technology.
- a. virtual reality
  - b. 360 projection
  - c. augmented reality
  - d. lossless compression

ANSWER: c  
POINTS: 1  
REFERENCES: 3D GRAPHICS  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 11:07 AM  
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109. When vector animations are used for special effects in movies, the animation sequences are \_\_\_\_\_.
- a. scanned into PNG format
  - b. pre-rendered into digital video clips
  - c. compressed into anaglyphs
  - d. rendered real time

ANSWER: b  
POINTS: 1  
REFERENCES: VECTORS AND VIRTUAL REALITY  
QUESTION TYPE: Multiple Choice  
HAS VARIABLES: False  
DATE CREATED: 8/1/2017 11:11 AM  
DATE MODIFIED: 8/1/2017 11:12 AM

110. Many of the graphic sequences in video games require \_\_\_\_\_ to produce a series of bitmap images while the game takes place.
- a. real-time rendering
  - b. delayed buffering
  - c. spherical projection
  - d. motion cropping

ANSWER: a  
POINTS: 1  
REFERENCES: VECTORS AND VIRTUAL REALITY

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

**Module 01: Digital Content**

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 8/1/2017 11:12 AM

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