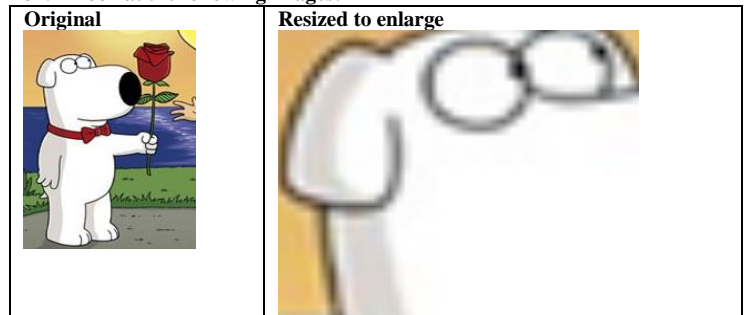# CS1033 Practice/Sample Exam Questions

1. Which file format would work best for an image of clouds if you wanted to show you website background partially showing through the clouds?
   a jpg
   b gif
   c png
   d partial transparency is not possible

2. What colors are the following:
   a #FF0000
   b <255,0,255>
   c <255,255,255>
   d #020202
   e <271, 271, 271>

3. What is dithering?

4. What format should this picture be stored as:

5. What format should this picture be stored as:

6. What does the term 1080p mean?

7. gif allows for:
   a 2 bit color
   b 8 bit color
   c 24 bit color
   d all of the above
   e a and b only

8. jpg compressions realizes that the human eye is better at detecting:
   a differences in color than differences in brightness
   b differences in brightness than differences in color

9. If you have a gif image it is better not to keep saving it as a gif repeatedly as it will lose some of its original information and thus degrade in quality
   a true
   b false

10. Any font can be displayed on a website, as long as the person building the site has the font installed.
    a True
    b false

11. There is always a one to one mapping between an IP address (128.22.3.45) and a domain name (www.csd.uwo.ca)
    a True
    b False

12. Which of the following is an invalid IP address
    a 33.44.55.66
    b www.uwo.ca
    c 280.89.300.20
    d a and b
    e b and c

13. Which of the follow are valid Top Level Domain Names:
    a www
    b com
    c edu
    d uk
    e ca

14. Which of the following is an html tag?
    a <b>
    b (b)
    c b
    d [b]

15. Where is the <title> tag displayed?

16. If you were viewing a web page and then clicked View Source, you would see:
    a text consisting of content and html tags
    b the actual images, links and content
    c links and the actual images only

17. What are the four fundamentals discussed in class of any good design

18. In an audio wave plot, the horizontal distance between waves indicates which characteristic of the sound?
    a volume
    b pitch
    c track length
    d a) and b)

19. A tween is
    a The frame that contains the last movement in your animation
    b The computer generated frames between two positions in an animation
    c The location where the music goes in an animation

20. Kerning is
    a The space between two lines of text
    b The space between two characters
    c The spacing across an entire row of text

21. The lowest resolution you should have when creating an image to be printed is
    a 72 ppi
    b 96 ppi
    c 200 ppi
    d 300 ppi
    e 1200 ppi

22. Ray tracing is adding skin and feathers and scales to animations
    a True
    b False

23. What occurs when you type in a search term on Google?
    a A web crawler/spider crawls the Internet
    b Google builds a database of websites pertaining to your search
    c Google looks in their index for the search term and then their ever-changing database to get URLs that contain the search term

24. Tim Berners Lee was instrumental in creating the internet in 1969.
    a True
    b False

25. What is the key idea behind the Page Rank algorithm of Google?

26. How many bits are required for storing 16 possible colours?

27. JPG compression is called lossless because pixel colours are removed to reduce filesize.
    a True
    b False

28. What is the name of the software that transfers files to a webserver

29. What is the name of the web server at Western

30. Match the following words to the definitions

a. Lossy compression	1.Web graphic file format that supports variable transparency
b. PNG	2. web graphic file format that can display animation
c. .jpg	3. the amount of information stored for each image
d. colour resolution	4. measures the number of bits of stored info per pixel (or how many different tones every pixel can have)
e. gif	5. A way of reducing filesize by discarding pixel colours and setting them to nearby similar colours
f. image resolution	6. web graphic file format that is best used for continuous tone images such as photographs

31. Look at the following images:

Original	Resized to enlarge

Was the original image a vector graphic or a bit mapped graphic?
   a. Vector
   b. Bitmapped (Raster)

32. Calculate the decimal number value of the binary number 1010:
    a 2
    b 10
    c 1000
    d 1001
    e 1020

33. Which of the following are composed of tiny dots, each corresponding to one pixel on the computer's display?
    a codecs
    b vector graphics
    c bit-mapped graphics
    d arrays
    e points

34. What are the characteristics that define a cel-based animation. Within a scene:
    a Background changes from one scene to another, and object changes from one frame to another.
    b Background changes from one scene to another, and object remains fixed.
    c Background remains fixed, and object changes from one frame to another.
    d Background remains fixed, and object remains fixed.

35. When using a table in KompoZer, to adjust the spacing around each cell so that text does not touch the grid cells, one would assign a value to the "cell spacing" or "cell padding".
   a Spacing
   b Padding

36. Match the following words to the definitions

a. animation	1. the illusion of a moving or changing graphic image
b. ease	2 when the illusion of motion fails and the animation appears as a sequence of still images being displayed rapidly
c. flicker	3. beginning the motion slowly and then accelerating its rate
d. morphing	4. changing one object to another
e. tweening	5. a clear sheet on which images are drawn, and placed over a stationary background
f. cel	6. drawing the frames in between the key frame

37. Match the following term to the best definition

a. sample size	1. a technique, done by a codec that reduces the size of a file.
b. compression	2 the number of bits used to represent a sample of the wave
c. frequency	3. distance between the peak and valley of a wave form and indicates the volume
d. amplitude	4. a continuous stream of sound wave
e. analog sound	5. advanced process that allows the sound to be played on the computer before the entire file is transferred to the users computer
f. streaming	6. number of peaks that occur in one second measured by the distance between the peaks (closer peaks are higher pitch sounds)
g. channel	7. The left and right "tracks" that separate mono sound into stereo sound

38. Match the following term to the best definition

a. bit rate	1. the ratio of width to height in a frame of video
b. codec	2. the size of a video (in bits, not bytes) divided by the number of seconds it is in length
c. aspect ratio	3. a compression/decompression algorithm used to compress data
d. bit depth	4. video playback that changes its quality based on the available band width
e. playback frame rate	5. the speed at which the individual frames are displayed
f. adaptive streaming	6. the ratio of each video component layers per 4x4 grid of pixels (i.e. 4:4:4)
g. colour sampling (YUV)	7. the number of bits used to describe the color of a single pixel

39. The term multimedia is best described as:
   a The use of electronic signals to communicate via a computer
   b The integration of text, graphics, animation, sound, and video in an application for the purpose of communicating
   c The creation of images via a tool such as Photoshop
   d The integration of sound and video via a tool such as Windows Movie Maker
   e c) and d) only

40. A vector-based image has the following characteristics:
   a Image is represented with lines and arcs that have a mathematical relationship
   b Quality is retained as image is increased in size
   c As image is increased, edges of image become jagged
   d All of the above
   e Both a) and b).

41. In animation, a snapshot of what's happening at a particular moment is known as a:
   a movement
   b frame
   c sample
   d model

42. The term FTP stands for:
   a Film Transfer Process
   b File Transfer Protocol
   c File Transfer Process
   d File Tracking Process

43. What does the CreativeCommon icon (NC) mean when found on digital content?
   a The graphic may be used for non-commercial works
   b The graphic may be used but must be accompanied by author attribution
   c The graphic may be used exactly as is, not altered in any way
   d The graphic may be used as long as its CC license is not altered

44. Streaming is the process of taking a large audio or video file and transmitting small, continuous amounts of that file over a network in a steady and continuous manner. The streamed video/audio is never stored on the hard drive but a portion of it is in the memory of the computer where the video is being displayed.
   a True
   b False

45. When using graphics software, a native file format means that the image properties/attributes are retained and can easily be edited.
   a True
   b False

46. A web host is needed as part of getting a website operational. Which of the following should not be a consideration when selecting a web hosting service? The web host's
   a Web site building software
   b Disk storage for storing web pages
   c Available bandwidth
   d Up time
   e Technical support

47. The main language for making websites is called:
   a ISP
   b FTP
   c HTTP
   d HTML

48. The term 4K refers to:
   a Ultra high resolution in TVs
   b 1080 scan lines for video
   c Retina display
   d Plasma TV
   e All of the above

49. Animation is used in websites in order to:
   a Illustrate movement over time
   b Assist with visualizing three dimensional objects
   c Create interest on a website
   d All of the above
   e a) and b) only

50. What is the html code required to insert video into your website:
   a <src>
   b <controls>
   c <video>
   d <codec>

51. Hexadecimal representation of colours (i.e. #A74301) offers many more colour possibilities than RGB representation (i.e. (15,200,55))
   a True
   b False – RGB offers more than hexadecimal
   c False – They offer the exact same amount

52. Assuming you have an image that is 800 pixels by 600 pixels and has a dpi of 200, how big will it be if you print it?

53. Assuming you have 3 image, all are 800pixels by 600 pixels, image A has a dpi of 200, image B has a dpi of 100, image C has a dpi of 10, which image will print out the largest?

54. Which image in the question above will have the largest filesize in bytes (assuming there is no compression)

55. If the image mentioned above is 24 bit colour, how big will the file size (in kilobytes) be of image A? (just show the calculation)
   _____

56. What type of sound format doesn't represent voice very well?

57. MP3 does lossless compression on sound: TRUE or FALSE

58. Youtube is moving away from displaying its videos as .flv files and towards what file format? _____

59. If a piece of paper is 5 inches by 5 inches and has a ½ border ALL around it, and you are going to print text at 18 point on it, with 0 leading, how many lines will you be able to fit on the paper?

60. Who founded google?

61. What year was the World Wide Web founded and by whom?

62. A web crawler creates an index of keywords (true or false)

63. What should the first page of a site be called?

64. What are some things you can do to make animation more realistic (we gave you 4-5 things)

65. It is possible to create an animation that loops in Photoshop (T or F)

66. Copying analog video from one tape to another loses quality (T or F)

67. JPG images can ONLY display 256 possible colours (T or F)

68. It is impossible to store a number bigger than 1024 as a binary number (T or F)