**ITEC2110 Digital Media**

**Chapter 3 Review Questions**

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

1)

The optimization of tonal adjustment at the time of capturing images--scanning or digital photography-- does not matter because you can always extend the tonal range of the image to any extent afterwards in image editing applications, such as Photoshop.

1)

T

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

2)

Suppose that you scan a 2"x1" picture in at a resolution of 300 dpi. What are the pixel dimensions of the scanned image?

2’’x300ppi = 600px 1” x 300ppi = 300ppi

2)

3)

Suppose that you scan a 2"x1" picture in at a resolution of 300 dpi. What will the physical dimensions of the image be if you print it at 300ppi?

600px/300ppi = 2” 300px/300ppi = 1”

3)

4)

Suppose that you scan a 2"x1" picture in at a resolution of 300 dpi. What will the physical dimensions of the image be if you print it at 600ppi?

600px/600ppi = 1” 300px/600ppi = ½”

4)

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

5)

Scanning and digital photography are two methods you can capture digital images.

5)T

6)

One megapixel is equal to 1,000,000 pixels

6) T

7)

An image of 3000\*2000 pixels is said to have 6 megapixels.

7)T

8)

A digital camera with more megapixels always mean better image quality.

8) F

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

9)

what are the factors of digital cameras that determine the image quality?

9)

E

A)

the optics of the lens

B)

the size and quality of the sensor

C)

the camera's image processing software

D)

the camera electronics

E)

all of the above

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

10)

A digital camera with a higher megapixel rating always give bigger prints

10) F

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

11)

What kind of images are GIF files most appropriate for?

11) C

A)

Print Graphics

B)

Images with rich colors

C)

Clip Art & Logo

D)

All of the above

12)

What kind of images are JPEG files most appropriate for?

12) C

A)

Print Graphics

B)

Clip Art & Logo

C)

Web Graphics

D)

All of the above

13)

Which file format(s) can be created as an animated sequence?

13) C

A)

JPEG

B)

PNG

C)

GIF

D)

TIFF

**ESSAY. Write your answer in the space provided or on a separate sheet of paper.**

14) Why does scaling an image usually deteriorate the image quality somewhat? Sampling rate changes

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

15)

The "per inch" in the units dots-per-inch and pixels-per-inch are in linear inches.

15)T

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

16)

Given below are the general steps of Image retouching of a scanned image. Order the steps by labeling 1 to 6.

\_\_3\_\_Adjust the overall contrast or tonal range of the image

\_\_1\_\_Crop and straighten the image

\_\_5\_\_Fine-tune specific parts of the image using tools such as dodge and burn, saturation adjustments.

\_\_4\_\_Remove color casts

\_\_2\_\_Remove dirt and dust

\_\_6\_\_Sharpen the image

16)

\_\_\_\_\_\_\_\_\_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

17)

Which of the following image file format uses lossy compression

17)A

A)

JPEG

B)

PNG

C)

PSD

D)

TIFF

18)

The X-axis in a image histogram represents:

18) A

A)

The color values in the image

B)

The number of pixels showing certain colors

C)

The time intervals at which image was sampled

D)

None of the above

**TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.**

19)

Letter R stands for Red in RGB color model.

19)T

20)

Letter K stands for Black in CMYK color model.

20)T

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

21)

Which of the following support animation?

21) A

A)

GIF images

B)

PNG images

C)

BMP images

D)

JPEG images

22)

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

22)A

A)

JPEG

B)

BMP

C)

TIFF

D)

All of above

23)

Which of the following is not static image?

23) A

A)

GIF images

B)

PNG images

C)

BMP images

D)

JPEG images

24)

Which of the following file extensions indicates pixel-based files

24) C

A)

TXT

B)

DOC

C)

PNG

D)

EPS

25)

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

25) B

A)

4MB

B)

32MB

C)

8MB

D)

64MB

26)

Your original picture is 5" \* 4" and you want to scan the picture to print as 10" \* 8" at 200 ppi, what scanning resolution should be used?

26) B

A)

300 ppi

B)

400 ppi

C)

500 ppi

D)

200 ppi

27)

For an image of 1600 \* 800 pixels, when printed with print resolution 200 ppi, how big is the resulted print?

27)

A

A)

8" x 4"

B)

16" x 8"

C)

10" \* 8"

D)

5" \* 4"