Chapter 1

-------------------- Question :1

…… is the structure of linked elements through which a user can navigate inactive multimedia

Select one:

a. None of the above

b. Hypermedia

c. Hyperlinks

d. Multimedia

-------------------------

Answer: Hypermedia

-------------------- Question :2

A project which is viewed by the user from beginning to end is called ——-

Select one:

a. Movie

b. Linear Multimedia

c. PPT Presentation

d. Multimedia

-------------------------

Answer: Linear Multimedia

-------------------- Question :3

Edward Mosher developed the Generalized Markup Language (GML) for …..

Select one:

a. IBM

b. Microsoft

c. Apple

d. GML didn’t develop by Edward Mosher

-------------------------

Answer: IBM

-------------------- Question :4

If multimedia elements are static and dynamic elements, which of the following isn’t type of dynamic elements

Select one:

a. Audio

b. Graphics

c. Video

d. Animation

-------------------------

Answer: Graphics

-------------------- Question :5

Standard Generalized Markup Language (SGML) released by …….

Select one:

a. Apple

b. Microsoft

c. IBM

d. IOS

-------------------------

Answer: IOS

-------------------- Question :6

The sequence in which the following events appeared is….

Select one:

a. Newspapers, gramophone, phonograph, Silent films, TV

b. Newspapers, phonograph, gramophone, Silent films, TV

c. Newspapers, phonograph, gramophone, Silent films, Motion pictures

d. phonograph, gramophone, Silent films, Motion pictures, TV

-------------------------

Answer: Newspapers, phonograph, gramophone, Silent films, TV

-------------------- Question :7

The following statements about multimedia formats are true EXCEPT for one.

Select one:

a. The use of multimedia formats can make studying literature more interesting.?

b. Interpretation of literary texts is best done using multimedia.

c. All multimedia formats are computer-generated.

d. Multimedia formats are an integration of media types such as text, graphics, audio, still and moving images

-------------------------

Answer: All multimedia formats are computer-generated.

-------------------- Question :8

The purpose of HTML is to display data and focus on how the data looks. whereas XML structures, stores, and transfers information and describes what the data is

Select one:

a. True

b. False

-------------------------

Answer: True

-------------------- Question :9

The woven combination of text, graphic art, sound, animation, and video elements is ——–

Select one:

a. Movie

b. Hyper multimedia

c. Multimedia

d. Presentation

-------------------------

Answer: Multimedia

-------------------- Question :10

Tools which are used to combine text, music, and graphic into a single unit, are called —– tools.

Select one:

a. Movie making tool

b. None

c. Authoring tool

d. Multimedia tool

-------------------------

Answer: Authoring tool

-------------------- Question :11

Which of the following allow user to navigate all the content of the project strictly?

Select one:

a. Nonlinear

b. Hierarchical

c. Composite

d. Linear

-------------------------

Answer: Linear

-------------------- Question :12

Which of the following aspects of Color Principles should be considered when designing a Graphics project? O: Color scheme| Art styles| use too many colors

Select one:

a. 1, 2 and 3 only

b. 1 and 3 only

c. 1 only

d. All of the above

-------------------------

Answer: 1, 2 and 3 only

-------------------- Question :13

Which of the following aspects of design should be considered when designing a Graphics project O: color schemes | how lettering is perceived

Select one:

a. 1 and 2 only

b. Neither 1 nor 2

c. Both 1 and 2

d. 1 only

-------------------------

Answer: Both 1 and 2

-------------------- Question :14

Which of the following statements about Multimedia are ? O: 2002 Skype was released | 2004 Web 2.0 was recognized | 2005 YouTube was created | 2006 Twitter was created

Select one:

a. 2 and 3 only

b. 2, 3, and 4 only

c. 1 only

d. All of the above

-------------------------

Answer: 2, 3, and 4 only

-------------------- Question :15

Which of the following statements hold(s) true about multimedia? Statement 1: Gramophone was the first device that was able to record and reproduce sound. Statement 2: phonograph was one of the dominant audio recording formats throughout the twentieth century

Select one:

a. Neither statement 1 nor statement 2

b. Only statement one

c. Both statement 1 and statement 2

d. Only statement one

-------------------------

Answer: Neither statement 1 nor statement 2

-------------------- Question :16

Which of the following statements hold(s) true about multimedia?Statement 1: It is any type of media where every type of information can be represented, stored, transmitted and processed digitally. Statement 2: It is a combination of picture, sound and animation.

Select one:

a. Neither statement 1 nor statement 2

b. Only statement one

c. Only statement one

d. Both statement 1 and statement 2

-------------------------

Answer: Both statement 1 and statement 2

-------------------- Question :17

Which of the following statements is/are about Hypermedia? Statement 1: user can navigate all the content of the book freely. Statement 2: Hypermedia includes a wide array of media, such as graphics, images, sound and video, and links them together..

Select one:

a. Both statement 1 and statement 2

b. Only statement one

c. Neither statement 1 nor statement 2

d. Only statement one

-------------------------

Answer: Only statement one

-------------------- Question :18

Which of the following statements is/are IN about multimedia?

Select one:

a. Multimedia applications can only store digital data, they cannot process it.

b. Video, animations and audio are the continuous form of multimedia elements.

c. A multimedia application with large set of audio and video takes less time to launch than the one which contains text and static images

d. Both A and B

-------------------------

Answer: Both A and B

-------------------- Question :19

Which one of the following is the BEST example of a Animation Software Tools? O: 3ds Max| Maya| Blender| Filmora

Select one:

a. 1, 2 and 3 only

b. 1 only

c. 1 and 3 only

d. All of the above

-------------------------

Answer: 1, 2 and 3 only

-------------------- Question :20

Which one of the following is the BEST example of a Digital Audio Software Tools? O: Adobe Audition | Cakewalk | Sound Forge | GIMP

Select one:

a. All of the above

b. 1 only

c. 2, 3, and 4 only

d. 1 and 3 only

-------------------------

Answer: 1 and 3 only

Chapter 2

………is used intensively in academic fields

Select one:

a. TIFF

b. PTM

c. EXIF

d. PS

e. PDF

f. BMP

--------------------------------------

Answer: PS

--------------------------Question :2

"Dpi" stands for ….

Select one:

a. Diagrams per inch

b. Dots pixel inch

c. Digits per unit

d. Dots per inch

--------------------------------------

Answer: Dots per inch

--------------------------Question :3

Any of the following is/are feature/s of GIF standard

Select one:

a. All of Above

b. Supports simple animation

c. Is limited to 8-bit color images only.

d. Uses the Lempel-Ziv-Welch algorithm.

e. It is best suited for images with few distinctive colors

f. Initially for transmitting graphical images over phone lines

--------------------------------------

Answer: All of Above

--------------------------Question :4

File format that is capable of describing grayscale and full color image data in several color spaces.

Select one:

a. BMP

b. TIFF

c. PDF

d. PNG

e. PS

f. GIF

--------------------------------------

Answer: TIFF

--------------------------Question :5

GIF stands for …...

Select one:

a. Graphics Interchange Format

b. Graphics Interchange File

c. Global Information Format

d. Graphics Information Format

--------------------------------------

Answer: Graphics Interchange Format

--------------------------Question :6

Is a technique for storing a representation of a camera scene

Select one:

a. PDF

b. PS

c. Both A &amp; E

d. TIFF

e. PTM

f. BMP

g. EXIF

--------------------------------------

Answer: Both A &amp; E

--------------------------Question :7

JPEG stands for…...Head, Title, HTML, body

Select one:

a. Joint Photographic Experts Group

b. Joint Picture Exports Group

c. Joint Picture Extra Group

d. Joint Picture Export Graphics

--------------------------------------

Answer: Joint Photographic Experts Group

--------------------------Question :8

Multimedia combines\_\_\_\_\_\_\_\_, text, \_\_\_\_\_\_\_\_\_\_, animation, video and \_\_\_\_\_\_\_\_

Select one:

a. Images, colour, audio

b. Audio, images, colour

c. Audio, hypertext, images

d. Colour, hypertext, images

--------------------------------------

Answer: Audio, hypertext, images

--------------------------Question :9

RGB typically uses how many bits to represent a color?

Select one:

a. 8

b. 24

c. 32

d. 48

e. 16

f. 1

--------------------------------------

Answer: 24

--------------------------Question :10

The file format that is a simplified version of PostScript allowing for files containing multiple pages and links.

Select one:

a. PS

b. PNG

c. GIF

d. TIFF

e. BMP

f. PDF

--------------------------------------

Answer: PDF

--------------------------Question :11

The PDF file format stands for...

Select one:

a. Portable Document Format

b. Printed Document Format

c. Photographic Design Format

d. Public Document Format

e. PostScript Durable File

f. Published Document Format

--------------------------------------

Answer: Portable Document Format

--------------------------Question :12

This is the default file format used by a specific software application.

Select one:

a. Home file

b. Image file

c. Native file

--------------------------------------

Answer: Native file

--------------------------Question :13

What is the term which represents the use of links between information of all sorts whether text, graphics, video and audio-based?

Select one:

a. Hypertext

b. HyperCard

c. Hypermedia

d. Wildcard

--------------------------------------

Answer: Hypermedia

--------------------------Question :14

Which file format is used in fax machines?

Select one:

a. 1-bit image

b. 8-Bit Gray-Level Images

c. 24-Bit Color Images

d. 8-Bit Color Images

--------------------------------------

Answer: 1-bit image

--------------------------Question :15

Which image files are lossy format?

Select one:

a. MPEG

b. PNG

c. JPEG

d. GIF

--------------------------------------

Answer: JPEG

--------------------------Question :16

Which of the following File Formats is a lossless File Format that was intended to replace GIF by adding extra features?

Select one:

a. PS

b. BMP

c. PNG

d. PDF

e. TIFF

f. GIF

--------------------------------------

Answer: PNG

Graphic\_image representation

---------------------------------Question : 1

A red car looks red because it

Select one:

a. Absorbs all colors except green and blue

b. Absorbs all colors except indigo

c. Reflects all colors except red

d. Reflects red color and absorbs others

Feedback

Answer: Reflects red color and absorbs others

---------------------------------Question : 2

A shirt absorbs green and red light, what color is the shirt

Select one:

a. Blue

b. Magenta

c. Black

d. White

Feedback

Answer: Blue

---------------------------------Question : 3

A shirt absorbs red light, what color pigment is used to dye the shirt

Select one:

a. Green

b. Red

c. Yellow

d. Cyan

Feedback

Answer: Cyan

---------------------------------Question : 4

G + B =

Select one:

a. Red

b. Cyan

c. Magenta

d. Yellow

Feedback

Answer: Cyan

---------------------------------Question : 5

If a material absorbs all frequencies of light waves EXCEPT green, what color will be perceived by the observer?

Select one:

a. Black

b. White

c. Yellow

d. Green

Feedback

Answer: Green

---------------------------------Question : 6

If all light waves are absorbed by a medium, then what color will be perceived?

Select one:

a. Black

b. Green

c. White

d. Red

Feedback

Answer: Black

---------------------------------Question : 7

If all light waves are reflected off a medium, then what color will be perceived?

Select one:

a. Pink

b. White

c. Yellow

d. Black

Feedback

Answer: White

---------------------------------Question : 8

Leaf looks green because it absorbs

Select one:

a. Green color and reflects others

b. Blue and yellow color

c. Red and yellow color

d. All colors except green

Feedback

Answer: All colors except green

---------------------------------Question : 9

Overlapping of two primary colors forms a

Select one:

a. Rertiary color

b. Mixed color

c. Secondary color

d. Both a and b

Feedback

Answer: Secondary color

---------------------------------Question : 10

R + B =

Select one:

a. Cyan

b. Yellow

c. Magenta

d. Red

Feedback

Answer: Magenta

---------------------------------Question : 11

R + G + B =

Select one:

a. Black

b. Red

c. White

d. Green

Feedback

Answer: White

---------------------------------Question : 12

Some objects look white in color like snow because they

Select one:

a. Refract all colors

b. Reflect all colors

c. Absorb all colors

d. Absorb white color

Feedback

Answer: Reflect all colors

---------------------------------Question : 13

The color you see is the color that Is

Select one:

a. Refracted

b. Absorbed

c. Dispersed

d. Reflected

Feedback

Answer: Reflected

---------------------------------Question : 14

The colors known as primary colors are

Select one:

a. Red, green and blue

b. Red, blue and orange

c. Red and green

d. Red, yellow and green

Feedback

Answer: Red, green and blue

---------------------------------Question : 15

To form other colors like brown, peach, purple etc. the colors that are required, are

Select one:

a. Red, blue and orange

b. Green, blue and yellow

c. Red, green and blue

d. Red, yellow and green

Feedback

Answer: Red, green and blue

---------------------------------Question : 16

What are the three colors that can be mixed to make any other colors?

Select one:

a. Supplementary colors

b. Primary colors

c. Electromagnetic colors

d. Secondary colors

Feedback

Answer: Primary colors

---------------------------------Question : 17

What is R+G+B

Select one:

a. Tiny dot on a TV screen and is either red, green, or blue.

b. Type of color seen when light goes through filters

c. Only allows selective wavelengths of light to pass through

d. Primary colors of light

Feedback

Answer: Primary colors of light

---------------------------------Question : 18

What part of the visible spectrum has the highest energy?

Select one:

a. Green

b. Orange

c. Violet

d. Red

Feedback

Answer: Violet

---------------------------------Question : 19

When red and blue are combined together, they form

Select one:

a. Yellow

b. Purple

c. Orange

d. Magenta

Feedback

Answer: Magenta

---------------------------------Question : 20

Which color is a primary color of light?

Select one:

a. Green

b. Cyan

c. Magenta

d. Yellow

Feedback

Answer: Green

---------------------------------Question : 21

Which color is a primary color of pigment?

Select one:

a. Red

b. Yellow

c. Blue

d. Green

Feedback

Answer: Yellow

---------------------------------Question : 22

White light goes through a red filter what color do we see?

Select one:

a. Green

b. Yellow

c. Red

d. Cyan

Feedback

Answer: Red

Multimedia Database (New)

------------------------------------------Question: 1

A Binary Large OBject (BLOB): is a raw file that can have a digital storage unit that is several gigabytes in size.

Select one:

a. False

b. True

Feedback

Answer: False

------------------------------------------Question: 2

it often requires a related program to be opened.

Select one:

a. False

b. True Answer

Feedback

Answer: False

------------------------------------------Question: 3

Multimedia data consists of a variety of media formats or file representations including

Select one:

a. PPT

b. BMP

c. TIFF

d. All the previous

Feedback

Answer: All the previous

------------------------------------------Question: 4

Multimedia database consume a lot of processing time, as well as bandwidth

Select one:

a. False

b. True

Feedback

Answer: False

------------------------------------------Question: 5

Usually, the data size of multimedia is large such as video; therefore, multimedia data often require a large storage

Select one:

a. True

b. False

Feedback

Answer: False

------------------------------------------Question: 6

VOD are systems which allow users to select and watch/listen to video or audio content when they choose to.

Select one:

a. False

b. True Answer

Feedback

Answer: False

------------------------------------------Question: 7

Which of the following is an example Requirements of Multimedia DBMS

Select one:

a. Privacy

b. Recovery:

c. All of the previous

d. Persistence

Feedback

Answer: All of the previous

------------------------------------------Question: 8

Which of the following is not an example of multimedia database applications?

Select one:

a. Video on Demand

b. None of the previous

c. Digital Libraries

d. News on Demand

Feedback

Answer: None of the previous

Lossy and lossless Compression Algorithms

……………………..is normally used for the data generated by scanning the documents, fax machine, typewriters etc.

Select one:

a. Vector Quantization Incorrect

b. Transformation Coding

c. Runlength Encoding

d. Huffman Coding

Feedback

The correct answer is: Runlength Encoding

----------------------------------------------------------------------------------------------------

A code in which no codeword is a prefix to another codeword is called as

Select one:

a. Parity code Incorrect

b. Convolutional code

c. Block code

d. Prefix cod

Feedback

The correct answer is: Prefix cod

----------------------------------------------------------------------------------------------------

A Huffman code: A = 1, B = 000, C = 001, D = 01 , P(A) = 0.4, P(B) = 0.1, P(C) = 0.2, P(D) = 0.3 The average number of bits per letter is

Select one:

a. 1 bit

b. 9 bit Incorrect

c. 0 bit

d. 0 bit

Feedback

The correct answer is: 0 bit

----------------------------------------------------------------------------------------------------

A Huffman encoder takes a set of characters with fixed length and produces a set of characters of

Select one:

a. constant length

b. fixed length

c. random length

d. variable length Correct

Feedback

The correct answer is: variable length

----------------------------------------------------------------------------------------------------

According to Claude Elwood Shannon’s second theorem, it is not feasible to transmit information over the channel with error probability, although by using any coding technique?

Select one:

a. Large Incorrect

b. May be large or small

c. Small

d. Unpredictable

Feedback

The correct answer is: Small

----------------------------------------------------------------------------------------------------

An alphabet consist of the letters A, B, C and D. The probability of occurrence is P(A) = 0.4, P(B)= 0.1, P(C) = 0.2 and P(D) = 0.3. The Huffman code is

Select one:

a. A = 0 B = 11 C = 10 D = 111 Incorrect

b. A = 0 B = 111 C = 110 D = 10

c. A = 01 B = 111 C = 110 D = 10

d. A = 0 B = 111 C = 11 D = 101

Feedback

The correct answer is: A = 0 B = 111 C = 110 D = 10

----------------------------------------------------------------------------------------------------

An optimal code will always be present in a full tree?

Select one:

a. True

b. False

The correct answer is: True

----------------------------------------------------------------------------------------------------

Applications of Huffman Coding

Select one:

a. All of the above Correct

b. Audio compression

c. Lossless image compression

d. Text compression

Feedback

The correct answer is: All of the above

----------------------------------------------------------------------------------------------------

Based on the requirements of reconstruction, data compression schemes can be divided into broad classes

Select one:

a. 2 Correct

b. 3

c. 5

d. 4

Feedback

The correct answer is: 2

----------------------------------------------------------------------------------------------------

Bits are needed for standard encoding if the size of the character set is X

Select one:

a. X+1

b. log(X) Correct

c. 2X

d. X2

Feedback

The correct answer is: log(X)

----------------------------------------------------------------------------------------------------

Characteristic of a vector quantizer

Select one:

a. Multiple input symbols are represented by one quantization index Correct

b. Multiple quantization indexes are represented by one codeword

c. Each input symbol is represented by a fixed-length codeword

d. All of the above

Feedback

The correct answer is: Multiple input symbols are represented by one quantization index

----------------------------------------------------------------------------------------------------

Composite source models is a combination or composition of several sources. In which how many source being active at any given time?

Select one:

a. All Incorrect

b. Only one

c. Only first three

d. None of these

Feedback

The correct answer is: Only one

----------------------------------------------------------------------------------------------------

compression is generally used for applications that cannot tolerate any difference between the original and reconstructed data.

Select one:

a. Lossless Correct

b. None of these

c. Both

d. Lossy

Feedback

The correct answer is: Lossless

----------------------------------------------------------------------------------------------------

compression is the method which eliminates the data which is not noticeable and compression does not eliminate the data which is not

Select one:

a. Lossless, lossy Incorrect

b. Lossy, lossless

c. None of these

Feedback

The correct answer is: Lossy, lossless

----------------------------------------------------------------------------------------------------

Data compression and encryption both work on binary

Select one:

a. True Answer Correct

b. False

Feedback

The correct answer is: True Answer

----------------------------------------------------------------------------------------------------

Data compression involves

Select one:

a. None of the above

b. Both compression and reconstruction

c. Compression only

d. Reconstruction only Incorrect

Feedback

The correct answer is: Both compression and reconstruction

----------------------------------------------------------------------------------------------------

Data compression means to the file size.

Select one:

a. Decrease

b. Can’t say

c. None of the above Answer

d. Increase Incorrect

Feedback

The correct answer is: Decrease

----------------------------------------------------------------------------------------------------

Data compression usually works by ……………………..

Select one:

a. Deleting random bits data Incorrect

b. Finding repeating patterns Answer

Feedback

The correct answer is: Finding repeating patterns Answer

----------------------------------------------------------------------------------------------------

Entropy Coding is an

Select one:

a. Lossy

b. Lossless Correct

c. 0

d. None

Feedback

The correct answer is: Lossless

----------------------------------------------------------------------------------------------------

For a continuous image f(x, y), Quantization is defined as

Select one:

a. All of the mentioned Incorrect

b. Digitizing the coordinate values

c. Digitizing the amplitude values

d. None of the mentioned

Feedback

The correct answer is: Digitizing the amplitude values

----------------------------------------------------------------------------------------------------

For models used in lossless compression, we use a specific type of Markov process called a

Select one:

a. Discrete time Markov chain

b. None of the above

c. Constant time Markov chain

d. Continous time Markov chain Incorrect

Feedback

The correct answer is: Discrete time Markov chain

----------------------------------------------------------------------------------------------------

Full form of ASCII is ……………………..

Select one:

a. American Standard Codewords for Information Interchange Incorrect

b. American Standard Code for Information Intercaste

c. American Standard Code for Information Interchange

d. American System Code for Information Interchange

Feedback

The correct answer is: American Standard Code for Information Interchange

----------------------------------------------------------------------------------------------------

Full form of GIF

Select one:

a. Graphics Inter Format

b. Graphics Interact Format Incorrect

c. Graphics Interchange Form

d. Graphics Interchange Format

Feedback

The correct answer is: Graphics Interchange Format

----------------------------------------------------------------------------------------------------

How many printable characters does the ASCII character set consists of?

Select one:

a. 128

b. 100 Correct

c. 90

d. 98

Feedback

The correct answer is: 100

----------------------------------------------------------------------------------------------------

Huffman codes are codes and are optimum for a given model (set of probabilities).

Select one:

a. Parity

b. Prefix

c. Block code

d. Convolutional code Incorrect

Feedback

The correct answer is: Prefix

----------------------------------------------------------------------------------------------------

Huffman coding is an encoding algorithm used for

Select one:

a. lossy data compression

b. lossless data compression

c. files greater than 1 Mbit Incorrect

d. broadband systems

Feedback

The correct answer is: lossless data compression

----------------------------------------------------------------------------------------------------

If a Zero is assigned a decision level, then what is the type of quantizer?

Select one:

a. A midtread quantizer Incorrect

b. A midrise quantizer

c. None of the above

d. A midtreat quantizer

Feedback

The correct answer is: A midrise quantizer

----------------------------------------------------------------------------------------------------

If a Zero is assigned a quantization level, then what is the type of quantizer?

Select one:

a. A midtread quantizer

b. A midrise quantizer Incorrect

c. None of the above

d. A midtreat quantizer

Feedback

The correct answer is: A midtread quantizer

----------------------------------------------------------------------------------------------------

If fidelity or quality of a reconstruction is , then the difference between the reconstruction and the original is .

Select one:

a. High, small

b. None of the above Answer Correct

c. High, high

d. Small, small

Feedback

The correct answer is: None of the above Answer

----------------------------------------------------------------------------------------------------

In a typical picture, most pixels will be

Select one:

a. bright Correct

b. equal

c. very different to their neighbors

d. very similar to their neighbors

Feedback

The correct answer is: bright

----------------------------------------------------------------------------------------------------

In how many parts we can divide audio and video services into broad categories?

Select one:

a. Three

b. None of the above Incorrect

c. Four

d. Two

Feedback

The correct answer is: Three

----------------------------------------------------------------------------------------------------

In Huffman coding, data in a tree always occur in

Select one:

a. Leaves

b. Roots Incorrect

c. None of these

d. Left sub trees

Feedback

The correct answer is: Leaves

----------------------------------------------------------------------------------------------------

In the Tunstall code, all codewords are of However, each codeword represents a number of letters.

Select one:

a. equal, different

b. different, equal Incorrect

c. none of these

Feedback

The correct answer is: equal, different

----------------------------------------------------------------------------------------------------

In which type of Data Compression, the integrity of the data is preserved?

Select one:

a. Lossless Compression Correct

b. None of the above

c. Both of the above

d. Lossy Compression

Feedback

The correct answer is: Lossless Compression

----------------------------------------------------------------------------------------------------

Information is the

Select one:

a. data

b. raw data Incorrect

c. meaningful data

d. Both A and B

Feedback

The correct answer is: meaningful data

----------------------------------------------------------------------------------------------------

Information theory was given by

Select one:

a. Claude Debussy

b. Claude von Regan

c. Claude Elwood Shannon Correct

d. Claude Monet

Feedback

The correct answer is: Claude Elwood Shannon

----------------------------------------------------------------------------------------------------

Lossy techniques are generally used for the compression of data that originate as analog signals, such as

Select one:

a. Speech Incorrect

b. None of these

c. Both

d. Video

Feedback

The correct answer is: Both

----------------------------------------------------------------------------------------------------

Markov model is often used when developing coding algorithms for

Select one:

a. Both Correct

b. None of these

c. Image

d. Speech

Feedback

The correct answer is: Both

----------------------------------------------------------------------------------------------------

Point out the correct statement:

Select one:

a. All of the mentioned Correct

b. If you specify a list of partitions or a partition that is out of range, an error will be generated

c. Compression is not available for system tables

d. The details of data compression are subject to change without notice in service packs or subsequent releases

Feedback

The correct answer is: All of the mentioned

----------------------------------------------------------------------------------------------------

Running time of the Huffman algorithm, if its implementation of the priority queue is done using linked lists

Select one:

a. O(Clog(C)) Incorrect

b. O(C2)

c. O(log(C))

d. O(C)

Feedback

The correct answer is: O(C2)

----------------------------------------------------------------------------------------------------

Running time of the Huffman encoding algorithm is

Select one:

a. O(log(C)) Answer Incorrect

b. O(Nlog(C))

c. O(Clog(C))

d. O(C)

Feedback

The correct answer is: O(Clog(C))

----------------------------------------------------------------------------------------------------

Self information should be .

Select one:

a. None of these Incorrect

b. Negative

c. Both

d. Positive

Feedback

The correct answer is: Positive

----------------------------------------------------------------------------------------------------

Sequence of code assigned is called

Select one:

a. nibble Incorrect

b. byte

c. word

d. code word

Feedback

The correct answer is: code word

----------------------------------------------------------------------------------------------------

Shannons theorem is also called

Select one:

a. noiseless coding theorem

b. noiseless theorem Answer

c. noisy coding theorem

d. coding theorem Incorrect

Feedback

The correct answer is: noiseless coding theorem

----------------------------------------------------------------------------------------------------

Suppose storing an image made up of a square array of 256×256 pixels requires 65,536 bytes. The image is compressed and the compressed version requires 16,384 bytes. Then the compression ratio is .

Select one:

a. 2:1 Incorrect

b. 1:4

c. 4:1

d. 1:2

Feedback

The correct answer is: 4:1

----------------------------------------------------------------------------------------------------

The basic idea behind Huffman coding is to

Select one:

a. compress data by using fewer bits to encode fewer frequently occuring characters Incorrect

b. expand data by using fewer bits to encode more frequently occuring characters

c. compress data by using more bits to encode more frequently occuring characters

d. compress data by using fewer bits to encode more frequently occuring characters

Feedback

The correct answer is: compress data by using fewer bits to encode more frequently occuring characters

----------------------------------------------------------------------------------------------------

The best algorithms for solving Huffman codes

Select one:

a. Greedy algorithm Correct

b. Exhaustive search

c. Brute force algorithm

d. Divide and conquer algorithm

Feedback

The correct answer is: Greedy algorithm

----------------------------------------------------------------------------------------------------

The development of data compression algorithms for a variety of data can be divided into

Select one:

a. 4 Incorrect

b. 3

c. 2

d. 5

Feedback

The correct answer is: 2

----------------------------------------------------------------------------------------------------

The difference between the entropy and the average length of the Huffman code is called

Select one:

a. Power

b. None of these

c. Redundancy Correct

d. Rate

Feedback

The correct answer is: Redundancy

----------------------------------------------------------------------------------------------------

The essential condition/s for a good error control coding technique?

Select one:

a. Better error correcting capability

b. All of the above Correct

c. Maximum transfer of information in bits/sec

d. Faster coding &amp; decoding methods

Feedback

The correct answer is: All of the above

----------------------------------------------------------------------------------------------------

The Huffman procedure is based on observations regarding optimum prefix codes, which is/are

Select one:

a. In an optimum code,thetwo symbolsthat occurleast frequently will havethe samelength Incorrect

b. In an optimum code, symbols that occur more frequently (have a higher probability of occurrence) will have shorter codewords than symbols that occur less

c. Both (A) and (B)

d. None of these

Feedback

The correct answer is: Both (A) and (B)

----------------------------------------------------------------------------------------------------

The main advantage of a Tunstall code is that

Select one:

a. The disparity between frequencies Incorrect

b. None of these

c. Errors in codewords do not propagate

d. Errors in codewords propagate

Feedback

The correct answer is: Errors in codewords do not propagate

----------------------------------------------------------------------------------------------------

The prefix code is also called as

Select one:

a. Instantaneous code Correct

b. Block code

c. Convolutional code

d. Parity code

Feedback

The correct answer is: Instantaneous code

----------------------------------------------------------------------------------------------------

The process of converting the analog sample into discrete form is called

Select one:

a. Modulation Incorrect

b. Sampling

c. Quantization

d. Multiplexing

Feedback

The correct answer is: Quantization

----------------------------------------------------------------------------------------------------

The redundancy is zero when

Select one:

a. Both

b. The probabilities are positive powers of two Incorrect

c. The probabilities are negative powers of two

d. None of the above

Feedback

The correct answer is: The probabilities are negative powers of two

----------------------------------------------------------------------------------------------------

The set of binary sequences is called a , and the individual members of the set are called ……………………..

Select one:

a. None of these Answer

b. Code, codewords

c. Codewords, code Incorrect

Feedback

The correct answer is: Code, codewords

----------------------------------------------------------------------------------------------------

The SNR value can be increased by the number of levels.

Select one:

a. Decreasing

b. None of the mentioned

c. Does not depend on

d. Increasing Correct

Feedback

The correct answer is: Increasing

----------------------------------------------------------------------------------------------------

The unary code for 4 is .

Select one:

a. 00001

b. 11100

c. 00011 Incorrect

d. 11110

Feedback

The correct answer is: 11110

----------------------------------------------------------------------------------------------------

The unary code for a positive integer n is simply n followed by a .

Select one:

a. None of these Incorrect

b. zero, ones

c. ones, zero

Feedback

The correct answer is: ones, zero

----------------------------------------------------------------------------------------------------

The unit of information depends on the base of the log. If we use log base 2, the unit is ; if we use log base e, the unit is ; and if we use log base 10, the unit is .

Select one:

a. Bits, nats, hartleys

b. Hartleys, bits, nats Incorrect

c. Bits, hartleys, nats

d. Hartleys, nats, bits

Feedback

The correct answer is: Bits, nats, hartleys

----------------------------------------------------------------------------------------------------

To convert a continuous sensed data into Digital form, which of the following is required?

Select one:

a. Neither Sampling nor Quantization Incorrect

b. Sampling

c. Quantization

d. Both Sampling and Quantization

Feedback

The correct answer is: Both Sampling and Quantization

----------------------------------------------------------------------------------------------------

Transform coding, vector quantization are examples for

Select one:

a. Lossy compression Answer Correct

b. Pixel

c. compression

d. Transmission

Feedback

The correct answer is: Lossy compression Answer

----------------------------------------------------------------------------------------------------

Tunstall coding is a form of entropy coding used for

Select one:

a. Both Incorrect

b. Lossless data compression

c. Lossy data compression

d. None of these

Feedback

The correct answer is: Lossless data compression

----------------------------------------------------------------------------------------------------

Uniform quantizer is also called as

Select one:

a. None of the above Incorrect

b. Mid rise quantizer

c. Low rise quantizer

d. High rise quantizer

Feedback

The correct answer is: Mid rise quantizer

----------------------------------------------------------------------------------------------------

Unit of redundancy is

Select one:

a. symbol/bits

b. bits/second

c. bits/symbol

d. none of these Incorrect

Feedback

The correct answer is: bits/symbol

----------------------------------------------------------------------------------------------------

Vector quantization is used for

Select one:

a. Lossy data compression Incorrect

b. All of the above

c. Lossy data correction

d. Pattern recognition

Feedback

The correct answer is: All of the above

----------------------------------------------------------------------------------------------------

What is compression ratio?

Select one:

a. The ratio of the number of bits required to represent the data after reconstruction to the number of bits required to represent the data before Incorrect

b. The ratio of the number of bits required to represent the data after compression to the number of bits required to represent the data before

c. The ratio of the number of bits required to represent the data before compression to the number of bits required to represent the data after

d. The ratio of the number of bits required to represent the data before reconstruction to the number of bits required to represent the data after

Feedback

The correct answer is: The ratio of the number of bits required to represent the data before compression to the number of bits required to represent the data after

----------------------------------------------------------------------------------------------------

What is compression?

Select one:

a. To reduce the size of data to save space

b. To compress something by pressing it very hardly Incorrect

c. To minimize the time taken for a file to be downloaded

d. To convert one file to another Answer

Feedback

The correct answer is: To reduce the size of data to save space

----------------------------------------------------------------------------------------------------

What is image?

Select one:

a. All of these Correct

b. Collection of pixel

c. Matrix of pixel

d. Picture

Feedback

The correct answer is: All of these

----------------------------------------------------------------------------------------------------

Which bit is reserved as a parity bit in an ASCII set?

Select one:

a. Sixth Incorrect

b. Ninth

c. Seventh

d. Eighth

Feedback

The correct answer is: Eighth

----------------------------------------------------------------------------------------------------

Which conveys more information?

Select one:

a. None of the mentioned

b. High &amp; Low probability event Incorrect

c. High probability event

d. Low probability event

Feedback

The correct answer is: Low probability event

----------------------------------------------------------------------------------------------------

Which is a type of data compression?

Select one:

a. Resolution Incorrect

b. Zipping

c. Caching

d. Inputting

Feedback

The correct answer is: Zipping

----------------------------------------------------------------------------------------------------

Which is the image processing technique used to improve the quality of image for human viewing?

Select one:

a. enhancement Correct

b. analysis

c. restoration

d. compression

Feedback

The correct answer is: enhancement

----------------------------------------------------------------------------------------------------

Which of the following are Lossless methods?

Select one:

a. All of the above Correct

b. Lempel Ziv

c. Run-length

d. Huffman

Feedback

The correct answer is: All of the above

----------------------------------------------------------------------------------------------------

Which of the following are lossy methods?

Select one:

a. MPEG Incorrect

b. MP3

c. JPEG

d. All of the above

Feedback

The correct answer is: All of the above

----------------------------------------------------------------------------------------------------

Which of the following are not in a compressed format?

Select one:

a. JPEG Incorrect

b. Bitmap

c. MPEG

d. MP3

Feedback

The correct answer is: Bitmap

----------------------------------------------------------------------------------------------------

Which of the following compression type is supported by SQL Server 2014?

Select one:

a. Both row and column Correct

b. Row

c. Column

d. None of the mentioned

Feedback

The correct answer is: Both row and column

----------------------------------------------------------------------------------------------------

Which of the following is not a part of the channel coding?

Select one:

a. Huffman code Correct

b. Checksum checking

c. rectangular code

d. Hamming code

Feedback

The correct answer is: Huffman code

----------------------------------------------------------------------------------------------------

Which of the following is the first phase of JPEG?

Select one:

a. Data Compression Incorrect

b. DCT Transformation

c. Quantization

d. None of the above

Feedback

The correct answer is: None of the above

----------------------------------------------------------------------------------------------------

Which of the following is true of lossy and lossless compression techniques?

Select one:

a. Neither lossy nor lossless compression can actually reduce the number of bits needed to represent a file Incorrect

b. Lossy compression is best suited for situations where some loss of detail is tolerable, especially if it will not be detectable by a human

c. Lossless compression is only used in situations where lossy compression techniques can’t be used

d. Both lossy and lossless compression techniques will result in some information being lost from the original file

Feedback

The correct answer is: Lossy compression is best suited for situations where some loss of detail is tolerable, especially if it will not be detectable by a human

----------------------------------------------------------------------------------------------------

Which of the following is/are correct for uniform quantizer

Select one:

a. The simplest type of quantizer is the uniform quantizer Incorrect

b. All of the above

c. All intervals are the same size in the uniform quantizer, except possibly for the two outer intervals

d. The decision boundaries are spaced evenly

Feedback

The correct answer is: All of the above

----------------------------------------------------------------------------------------------------

Which of the following would not be suitable for Lossy Compression?

Select one:

a. Text Correct

b. Video

c. Image

d. Speech

Feedback

The correct answer is: Text

----------------------------------------------------------------------------------------------------

Which type of method is used is used to compress data made up of combination of symbols?

Select one:

a. Lempel Ziv encoding Incorrect

b. Huffman encoding

c. Run- length encoding

d. JPEG encoding

Feedback

The correct answer is: Run- length encoding

----------------------------------------------------------------------------------------------------

Why data compressed?

Select one:

a. To optimize the data Incorrect

b. To reduce packet congestion on networks

c. Both (B) and (C)

d. To reduce secondary storage space

Feedback

The correct answer is: Both (B) and (C)