BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – BCA-2019/BCA-2020
Course Name – Introduction to Multimedia
Course Code - BCAC502
(Semester V)

Full Marks : 60 **Time : 2:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question) 1 x 15=15

1. *Choose the correct alternative from the following :*

(i) The use of ___ in multimedia material reproduce it easier to search and view related content.

   a) Linkage
   b) Hyperlink
   c) Link
   d) Connection

(ii) MPEG can be classify as

   a) Motion Picture Express Group
   b) Motion Picture Expert Group
   c) Motion Picture Export Group
   d) Motion Picture Extract◆Group.

(iii) Write the full form of GIF

   a) Graphics Image Format
   b) Grey Information File
   c) Geographical Information File
   d) Graphics Interchange Format

(iv) MP3 can be categorized of which of the following MPEG standards?

   a) MPEG1
   b) MPEG2
   c) MPEG3
   d) MPEG21

(v) Rich text is define as a

   a) Un-formatted text
   b) Formatted text
   c) Hypertext
   d) None of these

(vi) A multimedia file can be recognize as a

   a) Is same as any other regular file
   b) Must be accessed at specific rate
   c) Stored on remote server cannot be delivered to its client
   d) None of the mentioned

(vii) Determine , Video file format is

   a) Tiff
   b) AVI
   c) WAV
   d) None of the mentioned

(viii) Identify , a smaller version of an image is called a:

   a) Clipart
   b) Bitmap
   c) Portable network graphic
   d) Thumbnail

(ix) Choose which database system is used in multimedia

a) RDBMS
b) DBMS
c) Data dictionary
d) None of the mentioned

(x) Moving Picture Experts Group (MPEG-1), was illustrate for a

a) PC
b) CD
c) DVD
d) Floppy

(xi) If frames are displayed on screen fast enough, we can produce-

a) Signals
b) Motions
c) Packets
d) Bits

(xii) In Audio and Video Compression, each frame is reframe into small grids, called picture elements or

a) Frame
b) Packets
c) Pixels
d) Mega Pixels

(xiii) How many step◆ required for creating a 3D animation?

a) 2
b) 3
c) 4
d) 5

(xiv) In CMYK, K will be analyze as a

a) black color
b) hue
c) luminance
d) saturation

(xv) The amount of memory in frame buffer is consider as

a) Bit plane
b) Plane
c) Bit
d) None of the mentioned

Group-B
(Short Answer Type Questions)
3 x 5=15

2. Create a R - tree to explain the spatial database. (3)
3. Differentiate between lossless and lossy compression. (3)
4. Compare the NTSC, PAL and SECAM system of standard for television. (3)
5. A 15 inch monitor with an aspect ratio of 4:3 has a pixel addressability of 800 X 600. Calculate its resolution. (3)
6. Explain RLE with example. (3)

OR

Explain the term 'Quantization'. (3)

Group-C
(Long Answer Type Questions)
5 x 6=30

7. What are the uses of multimedia? (5)
8. A magnetic disc pack has 12 surfaces, out of which 10 are recordable. Each surface has 50 tracks and each track is divided into a number of sectors. If the total capacity of the disc is 50000 KB and the capacity of each sector is 512 bytes then calculate how many sectors are present on each track and how many cylinders are present in the disc pack? (5)
9. Describe ADDIE model by focusing its utility. (5)
10. Encode the string '55555551111112200111110000' using LZW encoding technique. (5)
11. What is DCT and why DCT is important for compression? (5)
12. Explain different MPEG standards. (5)

OR

Explain the Synchronization reference model in multimedia. (5)

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