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Brainware University
Barasat, Kolkata -700125

BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – Dip.CSE-2018/Dip.CSE-2019/Dip.CSE-2020
Course Name – Multimedia
Course Code - DCSE503
(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) Calculate 2 MB = _____ KB

- a) 1024
- b) 2048
- c) 9196
- d) None of these

(ii) Indicate that TV shows are considered as a _____ presentation.

- a) Linear
- b) Non- Linear
- c) Interactive
- d) None of these

(iii) In Audio and Video Compression, each frame is divided into small grids, called picture elements or expressed as

- a) Frames
- b) Packets
- c) Pixels
- d) Mega Pixels

(iv) Indicate that Diagram will be considered as _____ media

- a) Image
- b) Graphics
- c) Audio
- d) Video

(v) Choose the color that is not present in a binary image?

- a) White
- b) Blue
- c) Black
- d) None of these

(vi) Choose that Image segmentation is a _____ image processing technique

- a) Low-level
- b) Mid-level
- c) High-level
- d) None of these

(vii) Memorize the tag - Web pages starts with which of the following tag?

- a) < body >
- b) < start >
- c) < html >
- d) < title >

(viii) Text written in Times New Roman is determined as

- a) Plain text
- b) Unformatted text
- c) Formatted text
- d) Hyper text

(ix) Determine of the following does not support enlarging?

- a) .ttf
- b) .bmp
- c) .off
- d) .otf

- (x) Justify that Moving Picture Experts Group (MPEG) is used to compress
- | | |
|-----------|-------------|
| a) Frames | b) Pictures |
| c) Audio | d) Video |
- (xi) To add a plain color background, identify the true one of the following?
- | | |
|----------------------------------|------------------------------|
| a) < body bgcolor = "36.25.38" > | b) < body color = "#FF000" > |
| c) < body bgcolor = "#FF000"> | d) All of these |
- (xii) Calculate 2 GB = _____ MB?
- | | |
|---------|---------|
| a) 1024 | b) 2048 |
| c) 512 | d) 8 |
- (xiii) Observe that Hz is the unit of
- | | |
|----------------|--------------|
| a) Amplitude | b) Frequency |
| c) Time period | d) Waveform |
- (xiv) To create a bulleted text, identify the one from the following?
- | | |
|-----------|------------------|
| a) < ol > | b) < ul > |
| c) < il > | d) None of these |
- (xv) Analyze that Lempel-Ziv encoding technique is an example of _____ compression.
- | | |
|-----------------|------------------|
| a) Lossy | b) Lossless |
| c) Fixed Length | d) None of these |

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Define Nyquist-Shannon sampling theorem and explain the meaning of Nyquist frequency. (3)
3. Construct Huffman encoding technique with example. (3)
4. Construct LZW technique with example. (3)
5. Illustrate different audio file formats. (3)
6. Test the best type of fonts. (3)

OR

Design a web page with some basic HTML tags.

(3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Memorize different types of access mechanisms (5)
8. Explain Hypertext and hypermedia with suitable example (5)
9. Construct that the ratio between bit-depth and SNRdb is 1:6 (5)

OR

Illustrate the difference between binary, gray-scale and color images. (5)

10. Calculate the following - Encode the text string "AAABBBBBBCDDDDDDDEEEFFF" With RLE technique and explain the same. Also find the compression Ratio. (5)

OR

Calculate the following - In a text file, characters and their number of occurrence are as follows- A(16), B(7), C(6), D(6) and E(5). Encode the file with Huffman coding scheme. Also show the Ratio between Unencoded and Encoded length. (5)

11. Analyse the differences between GET and POST method (5)

OR

Calculate the following - If in a dictionary based encryption supports 25000 words initially and supports word updating, then What will be the encrypted size of the sentence "Study in Brainware University". Here Brainware and University are beyond the maximum limit (i.e. 32768). (5)

12. Assess the diagrammatic representation of MIDI. (5)

OR

Distinguish between different types of file formats in detail. (5)
