

B.E. Eighth Semester (Computer Engineering) (CGS)

10297 : Professional Elective - II : Multimedia Technologies : 8 KE 04

P. Pages : 2

AU - 3020

Time : Three Hours



Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain the various steps in multimedia production. 6
b) Explain how animation is accomplished in macromedia flash by means of Tweening. 7

OR

2. a) What is the meaning of following statement related to image? Also calculate the size of image in bytes related to following. 6
i) $512 \times 512 \times 8$
ii) $640 \times 480 \times 24$

- b) Explain GIF file format briefly and give specification of GIF image descriptor. 7

3. a) Explain L*a*b* (CIELAB) color model. 7
b) Explain image formation model related to color science. 6

OR

4. a) Draw CIE chromaticity diagram and explain following terms. 7
i) Line of purples.
ii) White spot.
iii) Dominant wavelength.
iv) Excitation purity.

- b) Explain different types of video signals. 6

5. a) Explain DPCM in details. 7
b) Explain the following messages. 6
i) MIDI voice messages.
ii) MIDI mode messages.

OR

6. a) Explain Nyquist theorem? What is Nyquist Frequency. 7
b) Explain Lossless Predictive coding in details. 6

7. a) Draw a coding tree for the string "HELLO" by using Shannon-Fano algorithm along with number of bits require to store the string "HELLO". 7
- b) Give and Explain the simple algorithm for LZW compression. 6

OR

8. a) Apply adaptive Huffman coding for the symbol string AADCCDD. 7
- b) Explain the algorithm for LZW compression and compress the string ABA BBA BCA BA BBA. 6
9. a) Explain I-Frame and P-Frame coding based in motion compression. 7
- b) Explain the three steps adopted by motion compensation in video compression. 7

OR

10. a) Differentiate between MPEG-1 and H.261 standard. 7
- b) Explain H.261 encoder function with neat diagram. 7
11. a) What are the special features of MPEG-2 AAC? 7
- b) Explain Temporal Masking. 6

OR

12. a) Explain the effect of Psychoacoustics factors on audio compression. 7
- b) Explain MPEG audio with reference to. 6
- i) MPEG Layers ii) MPEG Audio Strategy

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