	Utech
Name:	
Roll No.:	As Planning (NY Same Sinfer Staff Excellent)
Invigilator's Signature:	

CS/B.Tech (ICE-OLD)/SEM-6/IC-602/2013

2013 MULTIMEDIA

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A (Multiple Choice Type Questions)

- 1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) The language used by Power Point is
 - a) Win Script
- b) Java Script

c) VBA

- d) None of these.
- ii) Resolution of VGA monitor is (in pixels)
 - a) 640×480
- b) 800×600
- c) 1024×768
- d) 320×440 .
- iii) BMP format uses which of the following algorithm
 - a) Huffman
- b) Run Length Encoding
- c) Neither (a) nor (b)
- d) both (a) and (b).
- iv) DCT stands for
 - a) Discrete Cosine Transformation
 - b) Direct Colour Transformation
 - c) Different Coding Transformation
 - d) None of these.

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- v) EPS is stands for
 - a) Encapsulated Post Script
 - b) Encrypted Post Script
 - c) Enhanced Post Script
 - d) None of these.
- vi) Kerning is
 - a) Vertical gap between two lines
 - b) Smallest component of written language
 - c) Horizontal gap between characters
 - d) None of these.
- vii) ODA stands for
 - a) Open Document Architecture
 - b) Open Directory Architecture
 - c) Over Delay Architecture
 - d) None of these.
- viii) Two parts of morphing algorithm are
 - a) wrap and tweening
- b) tweening and wrap
- c) wrap and dissolve
- d) tweening and dissolve.
- ix) The minimum refresh rate
 - a) 25 Hz

b) 50 Hz

c) 70 Hz

- d) 30 Hz.
- x) GIF stands for
 - a) Graphics Image Format
 - b) Grey Information File
 - c) Geographical Information File
 - d) None of these.

GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

2. Differentiate between Huffman Encoding and Arithmetic Encoding.

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- 3. What are the difference between
 - a) free text and field text
 - b) component video format and composite video format.

2 + 3

- 4. Define temporal compression. Compare Spatial and Temporal compression.
- 5. What is multimedia? What are the applications of multimedia?
- 6. Describe in brief different audio file format.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. a) What is animation? What are the classification of animation? Explain the basis of classification.
 - b) Why synchronization is so important in multimedia presentation?
 - c) Describe 3 significant differences between vector image and bitmap image. (2 + 6) + 4 + 3
- 8. a) What is compression? What is the need of compression?
 - b) Describe the steps of JPEG compression technique.
 - c) Describe different frames in MPEG compression.

(1+2)+7+5

9. a) What is the characteristic feature of Multimedia system? What are the different image file formats.

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- b) A message compromising of seven character A to G is to be transmitted over a data link. Analysis has shown that the relative frequency of occurrence of each character is A: 0.10 B: 0.25 C: 0.05 D: 0.32 E: 0.01 F: 0.07 G: 0.2.
- c) What is meant by MDBMS ? Discuss different characteristics of MDBMS. (2+2)+6+(2+3)
- a) Define Quantization, Sampling and Quantization Error related to the digitization of analog signal with suitable diagram.
 - b) What are the differences between RGB and CMYK color model? What is device dependency?
 - c) Distinguish between 2D and 3D Animation.

$$(2+2+1)+(3+2)+5$$

- 11. Write short notes on any *three* of the following: 3×5
 - a) Components of Multimedia
 - b) MIDI
 - c) Animation
 - d) DPCM
 - e) Text File Format
 - f) Hypertext & Hypermedia.