SEAT No. :

P2018

[Total No. of Pages : 2

[5254]-190

B.E. (Information Technology) MULTIMEDIA SYSTEMS (2008 Pattern) (Elective - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6 from Section-I.
- 2) Answer Q7 or Q8, Q9 or Q10, Q11 or Q12 from Section-II.
- 3) Answers to the Section-I and Section-II should be written in seperate answersheets.
- 4) Figures to the right indicate full marks.
- 5) Draw appropriate diagrams where ever necessary.
- 6) Use of non programmable electronic calculator is allowed.

SECTION - I

- **Q1**) a) What are the goals and objectives of multimedia? [8]
 - b) What is Huffman coding? Convert the following using Huffman coding?[8]

Α	B	С	D	Е	F	G	Η
64	16	144	16	4	36	144	32

OR

- **Q2)** a) What are the characteristics of multimedia? [8]
 - b) What is LZW coding? Convert the **'banana band'** using LZW coding[8]

Q3) a) Elaborate any two methods of image enhancement in the context of digital images [8]

b) Elaborate GIF and TIFF file format [8]

OR

- *Q4*) a) Elaborate arithmatic coding method in data compression [8]
 - b) Elaborate BMP and JPEG file formats [8]

Q5) a)	Elaborate on digital audio and any one CD format							
b)	Elaborate the principles of MPEG audio compression							
,	Elaborate the principles of MPEG audio compression [8] OR							
Q6) a)	Elaborate characteristics of sounds							
20) a) b)		[8] [10]						
0)	Endobrate the defit modulation with the help of a diagram							
SECTION - II								
Q7) a)	Why inter-frame correlation is important in video encoding? How I, P and B-frames technique help in the MPEG video compression technique?[8]							
b)	Describe CCIR, CIF, SIF standards.	[10]						
	OR							
Q8) a)	What is digitization of video? Explain process of digitization of video	o. [8]						
b)	What is a need of video file formats? Explain AVI and H.263 briefly.	[10]						
Q9) a)	What is virtual reality? Elaborate CCD, VCR and 3D sound system	· [8]						
2) a) b)	Elaborate VR hand glove	[8]						
0)	OR	[0]						
<i>Q10</i>)a)	Elaborate basics of VRML.	[8]						
Q10 (a) b)	Elaborate head mounted tracking system	[8]						
0)	Liaborate nead mounted tracking system	[0]						
<i>Q11</i>)a)	Elaborate anticipation and staging in the context of anination	[8]						
b)	Elaborate straight ahead action and pose to pose in the context of anina	ation [8]						
OR								
Q12) a)	Elaborate easy in and out, exaggeration in the context of anination	[8]						
b)	Elaborate solid drawing and appeal in the context of anination	[8]						

