Total No. of Questions : 12]

SEAT No. :

P2998

[Total No. of Pages : 2

BEIT (Semester - I)
MULTIMEDIA SYSTEMS
(2008 Pattern) (Elective - I)

Time : 3 Hours] *[Max. Marks : 100*

Instructions to the candidates:

1) ***Answers to the two sections should be written in separate answer books.***
2) ***Answer question 1 OR question2, question 3 OR question4, question 5 OR question 6 from section I***
3) ***Answer question 7 OR question 8, question 9 OR question 10, question 11 OR question 12 from section II***
4) ***Neat diagrams must be drawn wherever necessary.***
5) ***Figures to the right side indicate full marks.***
6) ***Use of Calculator is allowed.***
7) ***Assume Suitable data if necessary.***

SECTION - I

Q1) a) How is a multimedia presentation developed? Explain the characteristics of multimedia presentation. **[9]**

b) What are different text file formats? Explain any three in detail. **[9]**

OR

Q2) a) Explain the role of multimedia in entertainment, education and health sciences applications. **[9]**

b) Explain the concept of linearity and non-linearity. What is meant by static and dynamic elements? Illustrate with examples. **[9]**

Q3) a) Elaborate on BMP and JPEG image file formats. **[10]**

b) How is image enhancement achieved using point to point enhancement method? **[6]**

OR

Q4) a) Differentiate between lossy and lossless compressions. What is RLE coding? Elaborate with an example. **[10]**

b) What is a fractal image? Explain fractal compression technique. **[6]**

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Q5) a) Draw and explain the nature of a sound wave. Explain its characteristics. **[8]**

b) List down various audio file formats and explain any two in detail. **[8]**

OR

Q6) What are the different types of amplifiers in audio system? Elaborate with the help of diagram. **[16]**

SECTION - II

Q7) a) How is video transmitted over transmission lines? Explain any two video transmission standards. **[12]**

b) Write a short note on video editing. **[4]**

OR

Q8) a) Explain three video signal formats. **[9]**

b) What is DVCAN ? Explain in brief. **[7]**

Q9) a) Write a short note on VRML. **[8]**

b) Explain in detail one application of VR. **[8]**

OR

Q10)a) What is the working of VR chair? Explain. **[8]**

b) Explain the working of 3D sound system. **[8]**

Q11)a) Explain onion skinning, masking, and morphing in the context of animation. **[9]**

b) Explain in detail 2D and 3D type of animations. State two applications of 2D and 3D animation. **[9]**

OR

Q12)a) How to create 2D animation of "Bouncing Ball" using any one animation tool? Explain stepwise. **[12]**

b) Explain any three principles of Animation. **[6]**

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