

Total No. of Questions : 12]

SEAT No. :

P2016

[4759]-193

[Total No. of Pages : 2

B.E. (Information Technology)

MULTIMEDIA SYSTEMS

(2008 Course) (Semester-I) (414444) (Elective-II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) *Answers to the two sections should be written in separate books.*
- 2) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 from Section-I.*
- 3) *Answer Q.7 or Q.8, Q.9 or Q.10, Q.11 or Q.12 from Section-II.*
- 4) *Neat diagrams must be drawn wherever necessary.*
- 5) *Figures to the right indicate full marks.*
- 6) *Use of calculator is allowed.*
- 7) *Assume suitable data, if necessary.*

SECTION-I

- Q1)** a) Define multimedia system. What are its building blocks? [6]
b) Elaborate the role of multimedia in education and industry. [6]
c) What are txt, doc and pdf text formats. [6]

OR

- Q2)** a) Explain architecture of multimedia database system. [6]
b) Explain MHEG and SGML architecture. [6]
c) What is text compression? Explain Huffman Coding as text compression technique. [6]

- Q3)** a) Elaborate on TIFF and BMP image file formats. [8]
b) Elaborate any two Lossy compression techniques. [8]

OR

- Q4)** a) Explain Shannon-Fano algorithm with example. [8]
b) Explain transform coding with example. [8]

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- Q5) a)** What is MIDI? Explain MIDI messages. [8]
b) Explain RMF and WMA audio file formats. [8]

OR

- Q6) a)** Elaborate Delta modulation (DM) and state how it is different from adaptive delta modulation. [8]
b) Explain MPEG in detail. [8]

SECTION-II

- Q7) a)** Write a short note on H261, H263. [6]
b) Explain MOV video file format. [6]
c) Explain video editing. [6]

OR

- Q8) a)** Write short note on EDTV and HDTV. [6]
b) Explain video Compact Cassette and Camcorder. [6]
c) Explain video signal formats. [6]

- Q9) a)** What is virtual reality? Write a short note on forms of Virtual Reality. [8]
b) What are VR devices? Explain any one virtual reality device. [8]

OR

- Q10)a)** Explain Virtual Reality applications. [8]
b) Elaborate the basics of VRML. [8]

- Q11)a)** What is animation? Explain types of animations. [8]
b) Explain morphing and motion cycling animation. [8]

OR

- Q12)a)** Explain applications of animation. [8]
b) Write note on 3D max. [8]

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