

Total No. of Questions : 12]

SEAT No. :

P1091

[Total No. of Pages :2

[4659] - 213

B.E. (IT)

C-MULTIMEDIA SYSTEMS

(2008 Course) (Semester - I) (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 Q 10, Q 11 or Q 12 from Section II.*
- 3) Answers of each section should be written in separate answer books.*
- 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) What is Multimedia Presentation? Describe its important characteristics. [6]
b) State and explain the basic components of Multimedia. [6]
c) Distinguish between Huffman Coding & LZW text Compression techniques. [6]

OR

- Q2)** a) What is Steaming Media and why is it required explain in detail. [6]
b) State and Explain the characteristics of Multimedia DBMS. [6]
c) Explain the hardware and software required for multimedia production work. [6]

- Q3)** a) What is color model? Differentiate CIE lab and HSB color model. [8]
b) What is image compression? Explain in brief, the lossless image compression techniques. [8]

OR

- Q4)** a) Explain how anti-aliasing and dithering can improve image quality. [8]
b) Compare special filtering and point processing techniques. [8]

P.T.O.

- Q5)** a) What are the basic components of an audio system? Describe their functions. [8]
b) State and Explain any two audio file formats in detail. [8]

OR

- Q6)** a) Explain various fundamental characteristics of sound. [8]
b) What is MIDI? Distinguish between channel messages and system messages. [8]

SECTION - II

- Q7)** a) Distinguish between component, composite and S video signal format. [6]
b) What do you mean by Video recording system? Explain VHS in detail. [6]
c) What is meant by chroma sub-sampling? Explain how does it help in bandwidth reduction. [6]

OR

- Q8)** a) Distinguish between H.261 and H.263. [8]
b) Explain any two Video file formats. [5]
c) What is meant by frames and frame rate in connection with motion video? [5]

- Q9)** a) Compare HMD and Data-glove. [8]
b) Differentiate between Virtual Reality and Augmented Reality. [8]

OR

- Q10)** a) What is VRML? Explain Structure of VRML. [8]
b) Explain in detail different types of peripheral devices used in Virtual Reality application. [8]

- Q11)** a) Explain Onion Skinning animation and its utility. [4]
b) How does Motion Cycling help to create compact animation sequence. [4]
c) Elaborate any two principles of animation with example. [8]

OR

- Q12)** a) Elaborate the role of animation on web. [8]
b) What is meant by Key framing and tweening? Explain their importance. [8]

