

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 helps 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]

