

(3 Hours)

Total Marks : 100

N.B.: (1) Question No.01 is compulsory

(2) Attempt any **Four** Questions from the remaining **Six** questions

(3) Assume Suitable Data wherever required

- Q.01 (a) What is Multimedia? Draw and Explain workstation based architecture for multimedia systems 10  
(b) Explain JPEG compression in detail. 10
- Q.02 (a) Explain in detail MIDI communication Protocol. 10  
(b) Explain CCITT Group 3 1D, CCITT Group 3 2D & CCITT Group 4 2D Compression Schemes. 10
- Q.03 (a) Explain Multimedia System Design Steps. 10  
(b) What is an Authoring System? Explain different types of authoring system. 10
- Q.04 (a) Draw and explain Level 0 through Level 5 of RAID functionalities. 10  
(b) Explain MPEG-1 Compression in detail. 10
- Q.05 (a) Explain various Multimedia applications. 10  
(b) What are the components of Distributed multimedia System? 10
- Q.06 (a) Explain the working of image scanner & hence explain reasons for use of CCD by these scanners 10  
(b) Explain different scheduling & Policing strategies in Multimedia Networking. 10
- Q.07 Describe the following in detail. (Any two) 20  
(a) Virtual Reality.  
(b) Multimedia Animation.  
(c) ADPCM in Audio Compression.
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