

Duration: 3 Hours

Total Marks assigned to the paper: 80

**Instructions to the candidates, if any:-**

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

(2) Attempt any three questions out of remaining five questions.



Q. No.	Marks
Q.1 (a) Explain Card and Page based authoring tools with example.	(05)
(b) differentiate between JPEG and JPEG2000.	(05)
(c) Explain Motion Compensation.	(05)
(d) Explain need of quantization during transmission of videos.	(05)
Q.2 (a) What is Multimedia. Explain the objects involved in multimedia system and describe various applications.	(10)
(b) Explain Video Compression based on Motion Compensation.	(10)
Q.3 (a) Explain various file formats used in multimedia system.	(10)
(b) Explain Object based Visual Coding and Video bit Stream in MPEG-4.	(10)
Q.4 (a) Compare Staggered Broadcasting and Pyramid Broadcasting for Video on Demand.	(10)
(b) Explain different techniques for search for motion vectors	(10)
Q. 5 (a) Explain different architectures for Content Organization in multimedia databases .	(10)
(b) Explain Global Information infrastructure function model.	(10)
Q. 6 Write short notes on (Any Four)	(20)
i) VRML	
ii) Midthread Vs Midrise quantizer.	
iii) Descriptors in MPEG-4	
iv) TV trees in text databases	
v) Query Language	
vi) MIDI file format.	

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