Set-1

Full Marks: 70

Time: 3 hours

Answer any six questions including Q. No. 1 which is compulsory

The figures in the right-hand margin indicate marks

1. Answer the following:

 2×10

- (a) What is the difference between continuous and discrete stream?
- (b) What is scriptware? Explain.
- (c) What is pulse code modulation? Explain.
- (d) Classify the categories of sound in term of range of frequencies.
- (e) What values does a 3-bit quantization results?

 (a) How resource control can be done in multimedia streaming using QOS? Explain.

(b) What is the framework for a multimedia distributed processing model? Explain.

8. Write short notes on any two:

5+5

- (i) Multimedia conferencing model
- (ii) Multimedia information system ·
- (iii) Distributed multimedia systems.

MCA-5/Multi. (Set-1)

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(1)	What is Kell facor? What is its use in vertical resolution? Give an example.	
(g)	How YUV signal can be generated from RGB?	
(h)	How multimedia OS differs from traditional OS? Give few points.	
(i)	What is the use of QOS in distributed multimedia system?	
(j)	What is interactive TV? Explain using example.	
(a)	Describe the components of multimedia system. Explain its functions.	5
(b)	What is the need of multimedia authoring tool? Explain using some example.	5
(a)	Give an account of audio signal processing and audio production.	5
(b)	Explain various components of synthesizes. Explain the MIDI protocol.	5

(2)

4.	3000000	What are the granularity of motion picture? How can you transmit a motion picture over a communication channel?	5
	(b)	What is the difference between shape interpolation and parametric key frame animation? Explain using an example.	5
5.	(0)	What is the difference between a lossless process and a lossy process in compression? Explain using example.	5
	(b)	What is the difference between JPEG and MPEG in terms of picture preparation? Explain.	5
6.	(a)	Write down SCAN-EDF algorithm. How it is used in multimedia disk scheduling?	5
	(b)	Give an account of real time scheduling system model. Explain using the figure find out process utilization for both rate monotonic scheduling (RMS) and earliest deadline first (EDF).	5