ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (AUTONOMOUS) M.Tech II-Semester Regular Examinations, May 2016 Multimedia and Communications Systems (Communication Systems)

Date:	Time: 3 hours	Max Marks: 60
	Answer ONE Question from each unit	
	All questions carry equal marks	
	All parts of the question must be answered at one place only	,

<u>UNIT-I</u>

1.	a. Name the different multimedia communication techniques and explain any two		
	communication techniques in detail.	(CO-1, PO-2, 3)	(6M)
	b. Explain the need and the principles of digitization of a signal.	(CO-1, PO-3, 4)	(6M)

(Or)

a. How is transfer of data and its rates specified in multimedia system? (CO-1, PO-2, 3)(4M)
 b. Provide stage-by-stage description of a differential pulse code modulation (DPCM) system with block diagrams of the transmitter and receiver section (CO-1,4, PO-3)(8M)

<u>UNIT-II</u>

- 3. a. What is data compression? What benefits are offered by compression techniques in designing multimedia systems? (CO-3, 4, PO-2, 3) (6M)
 - b. What is lossless compression? Explain any two lossless compression standards. (CO-3, 4, PO-2, 3) (6M)

(Or)

a. Explain any two image compression techniques in detail. (CO-4, PO-3) (6M)
 b. Explain the need of encoding and explain the types of encoding with examples (CO-4, PO-1, 3)(6M)

<u>UNIT-III</u>

a. Compare JPEG and MPEG. How would motion JPEG differ from MPEG? (CO-2, 4, PO-3)
b. What is the need of audio/video standards? Explain different MPEG standards and also give their frame structure. (CO-2, 4, PO-1, 3, 4)
(6M)

(Or)

a. Explain Linear predictive coding, code-excited LPC. (CO-2,3,4, PO-1,3,4) (4M)
b. Explain about MPEG audio coders, Dolby audio coders (CO-3, 4, PO-1, 3, 4) (8M)

UNIT-IV

7.	a. Discuss the standards related to interpersonal communications (CO-4, 5, PO-4, 5, 11)	(6M)
	b. Name different interactive applications over the internet and explain. (CO-5, PO-5, 11)	(6M)

(Or)

8.	a. Discuss Reference Models	(CO-4, 5, PO-4, 5, 11)	(4M)
	b. Explain the standards for entertainment applications	(CO-4, 5, PO-5, 11)	(8M)

<u>UNIT-V</u>

9.	a. What is the need of file transfer? Explain about FTP, TF	TTP (CO-3, 5, PO-8, 11, 12)	(6M)
	b. Discuss about Voice Over Internet and its standards.	(CO-3, 5, PO-8, 11, 12)	(6M)
	(Or)		
10	a What are different cable TV networks? Discuss	(CO 5 PO 8 11 12)	(6M)

10.	a. What are different cable TV networks? Discuss.	(CO- 5, PO-8, 11, 12)	(6M)
	b. How does the satellite communication can be applied	for HDTV communication?	
	(CO-5, PO-8, 11, 12)		(6M)
