MASTER OF BUSINESS ADMINISTRATION (MBACT)

Term-End Examination December, 2013

MCTE-022 : VOICE OVER INTERNET PROTOCOL

e : 3 h	ours Maximum Marks :	Maximum Marks : 100	
Note: Answer any five questions. Each question car 20 marks.			
(a) (b)	Write and explain various steps Involved in originating a VOIP telephone call. Write merits and limitation of VOIP over PSTN.	10 10	
(a)	What is Real-time Transport Protocol (RTP)? Write and explain various components of it?	10	
(b)	Explain, how RTP defines a standardized packet format for delivering audio over IP networks?	10	
achi (a)	eved in VOIP ? Layer-2 quality of service	20	
	e: A 2 (a) (b) (a) Exp achi (a) (b) (c)	 e: Answer any five questions. Each question can 20 marks. (a) Write and explain various steps Involved in originating a VOIP telephone call. (b) Write merits and limitation of VOIP over PSTN. (a) What is Real-time Transport Protocol (RTP)? Write and explain various components of it? (b) Explain, how RTP defines a standardized packet format for delivering audio over IP networks? Explain, how the following challenges can be achieved in VOIP? (a) Layer-2 quality of service (b) Number portability (c) PSTN Integration 	

4.	(a)	Write and explain various Voice over IP (VOIP) signalling threats and attacks.	10
	(b)	Explain in brief on the following VOIP security devices	10
		(i) Application-Layer Gateway	
		(ii) Session boarder controller	
5.	(a)	Write and explain various Critical legal Issues that are to be addressed in adoption	15
		of VOIP in India and Abroad	_
	(b)	Write short notes on Skype protocol	5
6.	Expl	lain in detail on the following :	
	(a)	Media Gateway Control protocol (MGCP)	10
	(b)	Session Initiation protocol (SIP)	10
7.	Writ	te short notes on the following: $5x^2$	1=20
	(a)	Session Description protocol	0
	(b)		
	` '	Web based VOIP	
	` '	Caller ID spooting	
	(e)	Audio Codec.	
	(-)	Tiudio Codec.	