]	Enrolli	nent No		Exam Seat No. H UNIVERS Examination-20	SITY	_
\$	Subject	t Name:	Voice Over Internet I	Protocol		
\$	Subject Code: 5TE03VOI1			Branch: M.Tech(EC))
\$	Semester:3 Date: 24/12/2015			Time: 2:30 To 5:30	Marks: 70	
			eat diagrams and figure suitable data if needed	s (if necessary) at right place. SECTION – I	es.	_
Q-1		Define	following:			(07)
	a.	Private	Branch Exchange (PBX)			
	b.	PSTN				
	c.		rgence of Technologies	3		
	d.		Private Networks Division Multiplexing (TD	\mathbf{DM})		
	e. f.	Quanti)(VI)		
	g.	Forma				
Q-2		Attem	pt all questions			(14)
	•	Compo	ra Internet Talanhony	vareue Talanhony over the I	ntarnat	

Q-2

- Compare Internet Telephony versus Telephony over the Internet. a.
- Explain the importance of VoIP, considering current technological scenario. b.

Q-2 Attempt all questions

(14)

- Discuss Classes of Speech. a.
- Discuss Speech Properties. b.

Q-3 **Attempt all questions**

(14)

- Explain sampling of voice. a.
- Explain quantization of voice and types of quantization. b.

- Q-3 a. Explain Pulse Code Modulation (G.711).
 - Explain Operation of Vocoder. Explain Formant Vocoder. b.



SECTION – II

Q-4		Define:				
	a.	Subscriber loop				
	b.	Side Tone				
	c.	Supervisory signaling				
	d.	Glare in telephony				
	e.	Trunk Line				
	f.	Access Network				
	g.	Bit robbing				
Q-5		Attempt all questions				
	a.	Discuss the Advantages and Disadvantages of VoIP.				
	b.	Explain operation of Seizing a Trunk using E&M Signaling.				
		OR				
Q-5	a.	Write a short note on ISO/OSI Network Model.				
	b.	Discuss VoIP Security Protocols H.235.				
0.6		A444	(1.4)			
Q-6	_	Attempt all questions	(14)			
	a.	Discuss TCP/IP Network Model.				
	b.	Write a note on Real-Time Control Protocol (RTCP).				
		OR				
Q-6		Attempt all Questions				
	a.	What is Packet Timing Jitter Problem? How to Solve that Problem?				
	b.	Discuss the parameters for Tuning for VoIP QoS.				

