[P. T.O.

B.Tech. 4th Semester (ECE) Examination, May-2016 COMMUNICATION SYSTEM

			Paper–EE-206-F	
ïme	ai	llou	ved: 3 hours] [Maximum marks: 10)(
lote	•	No	tempt five questions out of 9 questions. Question . 1 is compulsor y and attempt one question fro ch of the four sections.	
•	(2	ı)	Write Dirichlet's condition for fourier series.	4
	(t)	Explain even and odd function.	4
	(0	:)	Define Modulation index for A.M.	4
	((i)	What is aliasing and how it can be reduced.	4
	(6)	What is uniform linear quantization.	4
			Section-A	
•	C	lass	sify signals and systems.	0
. Describe the following:				
	(8	ı)	Modulation	
	(t)	Fourier analysis of signals	
	(c)	Base band transmission.	20
			Section-B	
•	(8	a)	What is DSB-SC modulation? Explain how the rin modulator for generations of DSB-SC wave act demodulator.	_
	(ł	o)	What do you mean by vestigial sidebar modulation and its application.	0

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5.	(0) T)'M	
J	• (a) Difference between AM and FM. Why FM	is bette
	(b)		1 1
		Section-C	
6.	(ä)	State and prove sampling theorem in time d	omain
	(b)	Explain modulation and demodulation of P	10 TM.
7.			10
	(a)	Explain delta modulation with suitable diag	rams.
	(b)	Calculate channel capacity of PCM and DM	1.0
		Section-D	
8.	(a)	Describe QPSK in detail.	10
	(b)	xplain receivers of M-ary PSK.	10
9.	(a)	Discuss about internal and external noise and ratio.	S/N
	(b)	What do you mean by transit time noise	10
	` /		10