Code No: 12	6AN :''': :'' <sup>*</sup>	X+* X**	*** ***	****	<b>R13</b>	# X +
JAWA	HARLAE NEH	RU TECHNOL	OGICAL UNIV	ERSITY HYDE	RABAD <sup>i</sup>	* * ***
	B.Tech III	Year II Semeste DIGITAL COM	r Examinations	, May - 2016		
		ronics and Comm				
Time: 3 hour				Ma	x. Marks: 75	*** ***
Note: "This o	uestion päper co	ntains two parts A	A and B.			X
Part A consis	A is compulsory tests of 5 Units. An	which carries 25	marks. Answer question from e	all questions in Feach unit. Each qu	Part A. Part B testion carries	
	AG	PART - A	(25 Marks)	FC	HÜ	X
b) Explai	in the need for no the Signal space	s of delta modula on-uniform quant Diagram of ASK s of Pass band Tr	ization in digital	communication.  Baseband transmi	[2] [3] [2] assion[3]	*4%%**
e)∷Defind f) Derive	e Entropy;:: e the Expression :	for the Information about (i) Block	i'''i i.::i on Rate.	***** * *** * * * *** * * * ***	[2] [3] [2]	* * * * * * * * * * * * * * * * * * *
h) List o	ut Properties of C	Cyclic Codes.  Spread spectrum			[3] [2]	
j)· ····What	is Frequency hop	ping spread spec	trum?		[3]	****
		PART - B	(50 Marks)			
	neat block diagra	am, Explain the p	process of Samp	ling and Quantiza	tion in digital	
b): Derive	e the expression f	for the Quantizati	on error		[5+5]	****
3.a) Explain b) Write	in about the noise the comparison b	e in PCM system between PCM and	s. d Analog modula	ation techniques.	[5+5]	
4.a) With 1	neat diagrams and the space represe	d equations, explantation of BPSK	ain about PSK sy . And also draw	/stem. its waveforms?	[[5+5]	

The bit stream 1011100011 is to be transmitted using DPSK. Determine the encoded

Explain about DPSK system. And also give the comparison between DPSK and PSK.

What is the need of pulse shaping for optimum transmission in baseband transmission?

[5+5]

What is meant by Cross talk? Explain in detail about the causes for cross talk.

by Explain in detail about Huffman coding and Lossy source code

sequence and transmitted phase sequence.

7.a) ....Briefly explain about Variable length coding........

5.a)

b)

6.a)

b)

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	9.a) Explaid by For a line in The initial All line in Explaid by Give a	in how Parity cho linear block code Syndrome deper error patterns the in the role of code brief history ab	ecking can be use e, prove with exar ands only on error at differ by a cod le division multip out direct sequence	d for error detect apple that: pattern and not of the eworld have the selection are the selection and their characters.	ue in present generam.	word? [5+5] ation?	AC AC
	b) What	is meant; by Sum? Explain in o	Synchronization?	Why we requi	ire synchronization	n fin spread [5+5]	m ka
	FG	AG	00	Ooo	AC	FG	AG
G	AC	ÄG	AG	AG	AC	AG	FIL
m. Esi	AG	AG	AG	AC	FIG	AG	Ħ.
	MG	FIG	AG	AC	AC	AG	FI.
Ü	AG	HG	FC	AC	AG.	AG	ĦÜ.
C	AG	AG	FG	AG	AG	AG	