Reg.	No:													
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR														
	(AUTONOMOUS)													
	B.Te	ch III Y	ear II								tions	February-2022		
							COMN							
Tima	2 hours			(Electi	ronics	and C	Commu	ınıcatı	ion En	ginee	ring)	Max. Marks: 60		
Time.	Time: 3 hours Max. Marks: 60 (Answer all Five Units $5 \times 12 = 60$ Marks)													
				(1	Answe	er all F	-		x 12 =	60 M	larks)			
	****		. 1 1 1					NIT-I						
1	 a With a neat block diagram explain PCM transmitter and receiver. b b) Explain the following line codes for 110101101 												7M 5M	
	i) Unipolar RZ & NRZ ii) polar RZ & NRZ.													
	OR													
2														
_	b What are the advantages & disadvantages of DPCM?												7M 5M	
				0			_	II-II					01/1	
3													6M	
	b What is ideal Nyquist solution for Zero ISI?													
								OR						
4	a Der	a Derive the mathematical expression for raised cosine spectrum?											6M	
b Write a brief note on Eye pattern and construct the diagram.													6M	
	UNIT-III													
5	Describe the concept of continuous AWGN channel into a vector channel?													
	****							OR						
6		at is the		-	_								6M	
b Give the condition for Orthogonality for basis function.													6M	
	UNIT-IV													
7	7 a Explain the generation and detection of BPSK.											7M		
b Discuss in brief about Non-coherent detection of binary FSK.													5M	
OR 8 Draw the block diagram of OPSK transmitter & receiver and explain each block of													12M	
8 Draw the block diagram of QPSK transmitter & receiver and explain each block UNIT-V													12111	
9	a Wha													
b What is forward error correction system and explain in detail?											ins:	6M 6M		
	i. 1110	15 101	, raid (ion sy		OR	Piani	ii act			OIVI	
10	a Dra	w and e	explair	the b	lock d	iagrar			stem	in deta	ail		7M	
		ine the	-			_							5M	

*** END ***