Q.P. Code: 16EC421												R1	6		
Re	g. N	lo:													
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								TON		,					
		B.T	ech l	ll Yea						-		natio	ns July-2021		
												ing)			
Tim	(Electronics and Communication Engineering) Time: 3 hours Max. Marks: 60														
					(An	swer a	ll Fiv	ve Unit	s 5 x 1	2 = 6	0 Mar	(2)			
					(7 m	SWCI a	.11 1 1 1 V	UNI		12 0	0 Iviai	x3)			
1	8	State s	ampli	ng the	orem.			UIII						5M	
a State sampling theorem.b With a neat block diagram explain PCM transmitter and receiver?												7M			
	OR														
2	a	Explai	n the l	OPCM	system	m with	n neat	diagra	am?					7M	
b Discuss the noise effects in Delta Modulation.													5M		
								UNI	Γ-II						
3		-						natcheo	d filter	?				6M	
	b	b What is correlative coding? Explain.												6M	
		D 1-:	1	4 - 11 - 1		4	. 1 1	0						73 4	
4		-		it parti				interfe	erence	and It	s errec	ts?		7M 5M	
	U.	Explai	n abot	ii parti	ai sigi	lanng	schei							3111	
5	9	UNIT-III a Explain the Gram-Schmidt orthogonalization procedure?												7 M	
5		-					-	ation d	<u>^</u>		0.			5M	
	N	,, inco	a onior	note	in bigi		1500110	O	-					0111	
6													of Matched filter	: 12M	
	Receiver.														
								UNIT	T-IV						
7								cohere						6M	
	b Compare pass band transmission with band pass transmission.													6M	
0	OR a Describe the generation and detection of DPSK. 71														
8				generation					PSK.					7M 5M	
	U	vv nat 1	s the t			Ivi-ai	ay Q	UNI	F-V					3141	
9	• [′]	The a	enerat	or not	vnomi	al of	a (1	and the second second		nina	code	is def	ined by: $q(X) =$	= 7M	
,		The generator polynomial of a (15, 11) hamming code is defined by: $g(X) = 1+X+X^2$. Develop an encoder and syndrome calculator for this code, using a systematic form of the code.													
b Write the advantages and disadvantages of parity check codes.													5M		
				Β				0							
10	al	Descri	be the	matrix	k repre	sentat	ion o	f linea	r blocl	k code	es?			6M	
	b]	Explai	n the (Convol	lutiona	al Enco	oding	and D	ecodi	ng me	thods.			6M	

*** END ***