	**	mat 1	. 3.5	. 1								,				* - *. 3							
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_	VA	ASA	VI	CO E. (LL	EG	E O ECE	F E	NG Sem	IN	EEI r Ma	RIN	VG (Auto	onon inati	ons,), H Mar	TY]	DEI 2017	RAB	AD		
				,		om	mun	icat	ion	Eng	inee	ring	3 & S	igna	Pro niqu	cessi							
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1		O	2 .	A CIT	7 170	177	 1 Th		- ·														
 2. 			^	ASE						OPS	V			٠									
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8.	,	Writ	e the	cha	racte	risti	cs of	fspr	eadi	ng c	odes	3.	••										
9.		Wha	t are	Diff	eren	tial	Spac	e tir	ne b	lock	cod	es?					٠						
10). (Outl	ine t	he ad	lvani	age	s of	Sma	rt ar	itenr	as.										•		
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11		a) D	escr	ibe a	bout	coh	eren	ce t	уре	of B	PSK	mo	dulat	ion 8	dete	ection	n of	digi	tal d	ata.		[7]	
		b) D	istin	guis	h bet	wee	n co	here	nce	& N	lon c	ohe	rence	type	of d	etect	ors.					[3]	
12	2.	a) V	/ith	the h	elp c	of bl	ock	diag	ram	s ext	plain	the	gene	ratio	n and	dete	ctio	n of	MS	K sig	mal.	[5]	
								_		_	-		_		r AW							[5]	
13	3.					-			A.						n des		Ехр	lain	the	work	ing of	[6]	
		b) II	lust	rate N	/axi	mur	n-Lil	kelil	nood	car	rier j	phas	se est	imati	on.							[4]	
1	4.	a) E	labo	rate	the v	vork	ing (of D	S-S	S sv:	stem	and	l its r	ole ir	CDI	MA.	~					[7]	
		b) A	an in		atio	n sig												in l	BPS	K, Fi	nd the	[3]	
1	5.	a) I	Discu	ıss th	e dif	fere	nt ty	pes	of N	1IM	O sy	sten	ns us	ed in	digit	al co	mm	unic	ation	1.		[5]	
								_							nicati							[5]	
1	6.	a) I)raw	& d	iscus	s at	out 1	the j	owe	er sp	ectra	a of	ASK	, FSI	C and	PSK	mo	odul	atior	tech	miques.	[5]	
		b) With mathematical analysis explain the working of optimum receiver for CPM signals.												[5]									
1	7.	Ans		any i																		•	
				Equal				-		_	,											[5]	
				Near Space	-	•						ol						٠				[5] [5]	