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COLLEGE OF ENGINEERING & TECHNOLOGY

Department: Electronics & Communication Engineering

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Course Title : Telecommunication Systems Engineering

Course Code: EC 551

Sheet (0)

Digital Modulation Techniques

	Digital Woddiation Techniques
4	
In QAM, both	of a carrier frequency are varied.
	frequency and amplitude
A)	phase and frequency
5)	amplitude and phase
	none of the above
L D)	
2 If the baud rate	is 400 for a QPSK signal, the bit rate is bps.
	100
— A)	400
— Б)	800
E)	1600
L D)	
If the bit rate fo	r an ASK signal is 1200 bps, the baud rate is
	300
A)	400
	600
	1200
□ D)	
If the bit rate fo	r an FSK signal is 1200 bps, the baud rate is
	300
	400
	1200
□ D)	

If the bit rate for a 16-QAM signal is 4000 bps, what is the baud rate?		
	300	
L A)	400	
F7	1000	
	1200	
□ D)		
6 If the baud rate	e for a 64-QAM signal is 2000, what is the bit rate?	
	300	
C _{R)}	400	
5,	1000	
	12000	
L D)		
7.		
	he amplitude of the carrier signal is varied to create signal frequency and phase remain constant.	
	ASK	
F-7	PSK	
□ _{C)}	FSK	
	OAM	
L D)		
	the frequency of the carrier signal is varied to represent data.	
Both peak amp	litude and phase remain constant.	
	ASK	
	PSK	
□ _{C)}	FSK	
	QAM	
,		
	he phase of the carrier is varied to represent two or more elements. Both peak amplitude and frequency remain constant.	
	ASK	
	PSK	
	FSK	
	QAM	

A constellation diagram shows us the of a signal element, particularly when we are using two carriers (one in-phase and one quadrature).			
	amplitude and phase		
	amplitude and frequency		
	frequency and phase		
	none of the above		
Quadrature amplitude modulation (QAM) is a combination of			
	ASK and FSK		
	ASK and PSK		
	PSK and FSK		
	none of the above		
12 uses	two carriers, one in-phase and the other quadrature.		
	ASK		
	PSK		
	FSK		
	QAM		
How many carrier frequencies are used in BASK?			
	2		
	1		
[] _{C)}	0		
	none of the above		
How many carrier frequencies are used in BFSK?			
	2		
	1		
	0		
	none of the above		

How many carrier frequencies are used in BPSK?		
C _{B)}	2 1 0 none of the above	
How many carrier frequencies are used in QPSK?		
C A) C B) C C) C D)	1	
15		
The constellation	n diagram of BASK has dots.	
The constellation diagram of BPSK has dots.		
□ _{B)} □ _{C)}	2 1 0 none of the above	
The constellation diagram of QPSK has dots.		
C _{A)} C _{B)} C _{C)}	2	

The constellation diagram of 16-QAM has _____ dots.

- C A) 4
 C B) 16
 C C) 8
 C D) none of the above