

2 Answer the following: (any two)

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- (a) Define and describe frequency-shift keying with diagram.
- (b) What is the purpose of a clock recovery circuit? When it is used?
- (c) Describe folded binary codes.

3	Answer the following: (any two)		14
	(a)	Define and describe pulse code modulation with diagram.	
	(b)	Define companding and explain analog companding.	
		OR	
3	Answer the following: (any two)		14
	(a)	Describe frame format and operation of the T1 digital carrier system.	
	(b)	Define codec and give a brief explanation about how they work.	
4	Answer the following: (any two)		14
	(a)	Describe the operation and basic functions of a standard telephone set.	
	(b)	Describe loading coils and bridge taps.	
	(c)	Define interoffice trunks, tandem trunks and tandem switches.	
5	Write short notes on: (any two)		14
	(a)	Cellular telephone network with basic diagram	
	(b)	Frequency reuse	
	(c)	GSM system Architecture	
	(d)	First generation analog cellular systems.	