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1	a						etween analog and digital signals.									2M	
	b Discuss about FM transmitter.												2M				
	c												2M				
		d Explain about demodulation of PPM signal.											2M				
	e Write short notes on receiver parameters  PART-B											2M					
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2		UNIT-I															
2	a	Derive an expression for the power content and transmission efficiency of single											6M				
	h	tone amplitude modulated signal.  Draw the frequency spectrum of DSB-SC modulation with necessary mathematical												4M			
	I.O	expressions.												4141			
	OR																
3									re-law	diode	6M						
		modulator & demodulator for AM.															
	b	Wr	ite sho	ort not	es on	Spectr	rum of	VSB.									<b>4M</b>
		UNIT-II															
4	a Explain the functionality of each block of phase shift discriminator.										<b>7M</b>						
	b	b Draw the block diagram of indirect FM method.													3M		
									OR								
5	a	a With the necessary circuit and voltage to frequency characteristics, explain the												5M			
				lity of			•										
	b	Coı	mpare	slope	detect	tor and	d balaı	-		-	r.						5M
									IT-II	-							
6	a	a If each stage has a gain of 10dB and noise figure of 10dB. Calculate the overall														5M	
		noise figure of a two-stage cascaded amplifier.															
	b	Give the Quadrature representation of Narrow-band noise.												5M			
7		Г	-1-:	41		C			OR	11			. 1	1		4 1 1 1	
7	a	a Explain the noise performance of DSB-SC scheme with the help of neat be diagram								u block	6 <b>M</b>						
	b		_	effectiv	ie noi	se tem	nerati	ire and	l noise	figur	· A						<b>4M</b>
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## OR

a	What are the differences between PAM, PWM, and PPM?	5M
b	Explain how PPM can be generated from PWM signals.	<b>5M</b>
	UNIT-V	
a	Explain about sensitivity selectivity and fidelity.	5M
b	Draw block diagram of super-heterodyne AM receiver and explain function of each	5M
	block	
	OR	
a	Write short note on measure of Information and Entropy.	<b>5M</b>
b	Derive the expression for condition of maximum entropy.	5M
	b a b	<ul> <li>a Explain about sensitivity selectivity and fidelity.</li> <li>b Draw block diagram of super-heterodyne AM receiver and explain function of each block</li> </ul>

\*\*\*END\*\*\*