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10	210	210	210 Q.COD	E : C678	210	210	210
			A which is comp			-В.	
		-	res in the right h	-			
		An	swer all parts of	a question at a	a place.		
			Part – A (Answe	r all the questio	ns)		
	Q1	Answer the followi				(2 x 10)	
		Which mathematica	• •			· · ·	
10	210	contantacae anno orgi		210	210	210	210
	b)	, ,	d to be initially relay	ed system only	if input prod	uces	
		zero output.	m atotaa that tha t	stal avarage nou	var of a pariadia a	ianal	
	C)	is equal to the sum	em states that the to		•	-	
	d	•	•		ounce coemeient	5.	
	e		oscilla	ator is used.			
	f)			ansmission is			010
10	²¹⁰ g				dulated.	210	210
	h)	, e i					
	i)		-		i vib roto r		
	j)	PWM signal can be	generated using	muit			
	Q2	Answer the followi	na auestions: Sha	ort answer type		(2 x 10)	
	a		• •	••		(-y	
	2 b			•	210	210	210
	C)						
	d)		•	odulation?			
	e) f)						
	f) g)	1 0		iques			
	9 h)						
	i)						
10	²¹ j)	What are the limitation	ions of PWM?	210	210	210	210
				-			
			Part – B (Answer a		<u>ns)</u>	(4.6)	
	Q3 a) b)			offfi.		(10) (5)	
	D,	J Classify the signals.				(3)	
	210	210	210	210	210	210	210

Q4	a) b)	Explain the correlation of power signals. What is energy spectral density?	(10) (5)	
Q5	a) ²¹₀ b)	Classify analog modulation techniques. Explain the advantages of modulation. A communication transmitter radiates a 1.180kW amplitude modulated signal. ²¹⁰ If the carrier power is 1kW, find the modulation index.	(10) (5)	21
Q6	a) b)	With a neat diagram explain the generation of amplitude modulation. What is over modulation and what are its consequences.	(10) (5)	
Q7	a) ₂b)	With a neat diagram explain the generation of frequency modulation.Compare amplitude modulation and frequency modulation.210210210	(10) (5)	21
Q8	a) b)	Explain how PWM can be generated using mono stable multi. What are the applications of PWM?	(10) (5)	
Q9	a) b)	With a neat block diagram explain the demodulation of PAM. What are the applications of PPM?	(10) (5)	

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210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210