Registration No :							٦	
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Total Number of Pages	: 02							B.Tech
210 210		Max	gular Ex ATION   H : ELE ne : 3 H k Marks	ENGIN ECTRIC Iours 5:100	EERIN( CAL		210 <b>P</b> E	EE7J004210
Answer Question No.1	l (Part-1)		Q.COD compu			HT from	Part-II and an	y TWO
210 210		fr	om Par	t-III.	-	210	210	210
The	efigures	in the rigi	nt hand	margı	n indic	ate mark	is.	
Q1 Short Answer T	vne Ques	stions (Ans	Part- wer All-					(2 x 10)
a) What is the role	of channel	l encoder ar	nd decod	der in a				( <b>2</b> X 1 <b>0</b> )
<b>b)</b> How are the pose	sitive and	negative FC	ourier co	emcieni 210	ts of a p	eriodic si	gnai relate with	210
<ul><li>c) What is reason of</li><li>d) Can diode detection</li></ul>							_ 10	
e) What is the carr	ier power	and total tr					odulated signal	
$v(t) = 10(1 + 0.5 \cos a)$ <b>f)</b> If the modulatio	<i>· · · · · · · · · · · · · · · · · · · </i>		ncv mo	dulated	signal	is double	d what would	
happen to the ba	ndwidth o	of the signal	?					
g) What is the free $x(t) = 12\cos(2\pi x^2)$				aeviatio <sub>210</sub>	on of an	angle m	odulated signal	210
h) What are the ste	ps involve	ed in genera			de modul	ation sigr	al?	
<ul><li>i) What is slope ov</li><li>j) What is the diffe preferred?</li></ul>					l natural	sampling	? Which one is	
			Part- l					
Q2 Focused-Short a) Find the Fourier		• •	•		-		•	( <b>6 x 8</b> )
-, Tind the Foundi		. ,	` /	11(1 1)	WHOIC I		orcocritica do	
		П(t)4						
210 210	-1	1/2		1/2		210	210	210
<ul><li>b) State and prove</li><li>c) Explain the filter with it?</li></ul>								
d) A single tone	•	•	•	•				
modulation index the power of the e) Represent the si blocks.	FM signal	l	•	0.40		0.1.0		210