Seat No.:			Enrollment No	
DE		ECHNOLOGICAL EXAMINATION (NEW S		'D 2012
	Code: 2110016	EXAMINATION (NEW S	Date:03/06	
•		onias	Date:03/00/	2010
•	Name: Basic Electro	onics	T-4-1 M	1 70
I IIIIe: 02 Instruction	:30 PM to 5:00 PM		Total Mar	KS: /U
		ulsory. Attempt any four out	of remaining Six question	ıs.
2.	Make suitable assumption Figures to the right indi	ons wherever necessary.	or romaning our question	
Q.1	Objective Question ((MCQ)		
(a)	-	e option from the following.		07
1.		the rate of transfer of		
	time.		-	
	- · · · · · · · · · · · · · ·	ent (c) Energy (d) Voltage		
2.	Mesh analysis is base			
		(c) Both (d) Law of co		
3.		ements such as resistant		
	<u>-</u>	hysically separable, then it is (b) Distributed Network	s known as	
	. ,	k (d) Bilateral Network		
4.	` '	ng is not applicable to the no	onlinear network?	
		on (c) Superposition (d) KC		
5.		amplifier the phase shift b		
	output is			
	(a) 270° (b) 45°			
6.		Application of Op-Amp?		
	· · ·	(b) Differentiator		
7.		(d) Log Amplifier		
7.	(a) 125 (b) 128	nt of Binary (1111110) is (c) 255 (d) 126		
	(a) 123 (b) 120	(c) 255 (d) 120		
(b)	Choose an appropriate	e option from the following.		07
1.		which accepts many input		
	one output is known a			
-	. ,	nultiplexer (c) Multiplexer		
2.		al, is a Random Sig		
3.		osine Wave (c) Noise (d) signal is also known as	•	
3.		(c) Energy (d) Pow	_	
4.	* *	is digital Pulse Modu		
-T+		(c) PCM (d) PW		
5.	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	ng utilizes a frequency band		
	(a) 30kHz-300kHz	(b) 300kHz-3MHz		
	* /	(d) 30MHz-300MHz		
6.		ng is used for AM Detection		
	. ,	(b) Zero Crossing detec	ctor	
-	• /	(d) Phase locked loop	a Anomafan Garat'	
7.	If r(t) is input, c(t) is then for an impulse in	s the output and $G(s)$ is the	e transfer function,	
	(a) G(s)=C(s)	(b) G(s)=R(s)C(s)		
	(a) $G(s) = C(s)$ (c) $G(s) = R(s)$	(d) $G(s)=R(s)C(s)$	http://www	w.gniara
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Q.2	(a) (b) (c)	Explain Coulomb's First and Second Law. Explain Kirchhoff's Voltage law and Current law in Short. Explain Thevenin's theorem with suitable Example.		
Q.3	(a) (b) (c)			
Q.4	(a) (b) (c)	$F(A,B,C) = \sum m(0,2,3,5)$	03 04 07	
Q.5	(a) (b) (c)	6		
Q.6	(a) (b) (c)	What is multiplexing? Compare FDM and TDM Write short note on Waveguides. Draw and explain the block diagram of superheterodyne AM radio receiver.	03 04 07	
Q.7	(a) (b)	Compare Open Loop and Closed Loop Systems. Explain transient response and steady state response of system with diagram.	03 04	
	(c)	Explain any seven rules for block diagram reduction of control system with necessary diagram.	07	
