DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – DEC 2018

	Dranch: D. Tech	Subject Code: BTEXC303	
	Subject Name: Electro		
	Max Marks: 60	Date:- 05/12/2018	Duration:- 3 Hrs.
	 Instructions to the Students: Each Question Carries 12 Marks Attempt any five questions of the following Illustrate your answers with neat sketches, diagram etc., wherever necessary If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly 		
Q. 1	Attempt Any Two questions of the following		
	a) Briefly Explain construction and working principle of JFET		
	b) Describe FET as an A	06	
	c) Explain about FET a	06	
Q.2	a) Briefly Explain the Characteristics of N-Channel E-MOSFET		
	b) Write short Notes on	Non-Ideal Voltage current character	ristics 06
Q.3	a) Explain the Classification of amplifier in details		
	b) Discuss in details ab	out various feedback topologies	06
Q.4	Attempt Any Two questions of the following		
	a) Explain about Barkhausen criterion for oscillator		06
	b) Draw and explain the RC Phase shift Oscillators		06
	c) Describe the Hartley and colpitts oscillators		06
Q.5	a) Briefly Explain abou	06	
	b) Write down the applications of IC 555 in Engineering		06
Q.6	Attempt Any Two questions of the following		
	a) Explain about adjustable three terminal positive (LM 317) regulators with neat diagram		
	b)Briefly Explain SMPS with Neat diagram		
	1, Co (x/x) (x) (2, C) (x) (x) (x)	nparison of Linear power supply and	O6
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