

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD -402 103 Mid Semester Examination – March - 2019

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Q.No.3 Attempt any one of the following: a.) A 10 KW carrier wave is amplitude mode a sinusoidal modulating signal. Calcula	To No.2 Attempt any two of the following: a.) Discuss TDM technique. b.) Derive an expression for insta c.) Draw and explain Phase shift	c.) State sampling theorem. d.) What is modulation? Give their types. e.) Define modulation Index for amplitude modulated signal. c. f.) Define low and high power level modulation. g.) What is Digital modulation? State its advantages. h.) Identify the amount of power saved if carrier alone is sup	No.1 Attempt any six of the following: a.) Explain Simplex and Duplex systems. b.) List various modes of communication.	a R Structions: Assume suitable data if required.	Subject:- Analog Communication Engineering (ACE) Subject: Code: BTEXC402 Disc:- 12 03 2019	Class: B. Tech (E&TC)	
a.) A 10 KW carrier wave is amplitude modulated at 80% depth of modulation by a sinusoidal modulating signal. Calculate the side band power, total power and the transmission efficiency of the AM wave.	Attempt any two of the following: a.) Discuss TDM technique. b.) Derive an expression for instantaneous voltage for FM signal. c.) Draw and explain Phase shift method for SSB generation.	 c.) State sampling theorem. d.) What is modulation? Give their types. e.) Define modulation Index for amplitude modulated signal. f.) Define low and high power level modulation. g.) What is Digital modulation? State its advantages. h.) Identify the amount of power saved if carrier alone is suppressed. 	g: c systems. nunication.	equired.	ineering (ACE)		
ation by power and the	(06)		(06)	(Marks)	Marks: 20 Time:- 1 Hr.	Sem.:- IV	