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

Spoject:- Analog Communication Engineering (ACE)
Spoject code: BT Exc 402

Date:- 12/03/2019

Restructions: Assume suitable data if required.

Branch Service of the following:

No.1 Attempt any six of the following:

a.) Explain Simplex and Duplex systems.

Class: B. Tech (E&TC)

Marks: 20

Sem .:- IV

Time:-

1 Hr.

(Marks)

(06)

a.) Explain Simplex and Duplex systems.

List various modes of communication

State sampling theorem.

What is modulation? Give their types

Define modulation Index for amplitude modulated signal

f.) Define low and high power level modulation.

What is Digital modulation? State its advantages.

Identify the amount of power saved if carrier alone is suppressed

www.FirstRanker.com No.2 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.

Q.No.3 Attempt any one of the following:

a.) A 10 KW carrier wave is amplitude modulated at 80% depth of modulation by transmission efficiency of the AM wave. a sinusoidal modulating signal. Calculate the side band power, total power and the

b.) Draw and explain the block diagram of ISB generation technique

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