Total No. of Questions: 10 ] [ Total No. of Printed Pages: 3

Roll No. .. 0502 EC.081.0/3.

## EC-405(N)

## B. E. (Fourth Semester) EXAMINATION, June, 2011

(Electronics & Communication Engg. Branch)

ANALOG COMMUNICATION

[EC-405(N)]

Time: Three Hours

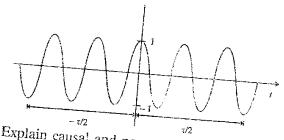
Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt one question from each Unit. All questions carry equal marks.

## Unit - I

1. (a) Find the Fourier transform of a radiofrequency pulse 15



(b) Explain causal and non-causal system in short.

Or

- 2. (a) Explain Parseval's theorem for energy signals.
  - (b) State and prove the frequency convolution theorem. 10

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5

Unit-IV

process.

Draw the block diagramme of superheterodyne receiver and explain its working, with tracking and alignment

20

[3]		
Or		
8.	(a)	What is AVC and AFC? What is the impact of AVC and AFC in radiotransmitter?
	(b)	Draw and explain AM transmission using low level modulation.
Unit – V		
9.	Writ	e short notes on any two of the following: 20
	(i)	Noise bandwidth
	( <u>ii</u> )	Noise figure
	<u>(iii)</u>	Noise temperature
	(iv)	Noise in Angle modulation system
Or		
10.	(a) (b)	Explain figure of merit for FM. 10 Discuss white noise and its power spectrum. Which frequency component does it have? 10