2.6 OBSERVATION

DSB-SC MODULATION

Modulating signal				Carrier signal				
Signal Type	Amplitude	Time Period	Frequency	Signal Type	Amplitude	Time Period	Frequency	
Sine wave	408m	o-4 ms	2.5 kHz	Sine wave	26V	9-6348	103-7kH	
			Modulat	ed Outpu	t			
Signal Type		Emax			Emin	Modu	Modulation index	
AM			2.24V		40 mV		0.887	

DSB-SC DEMODULATION

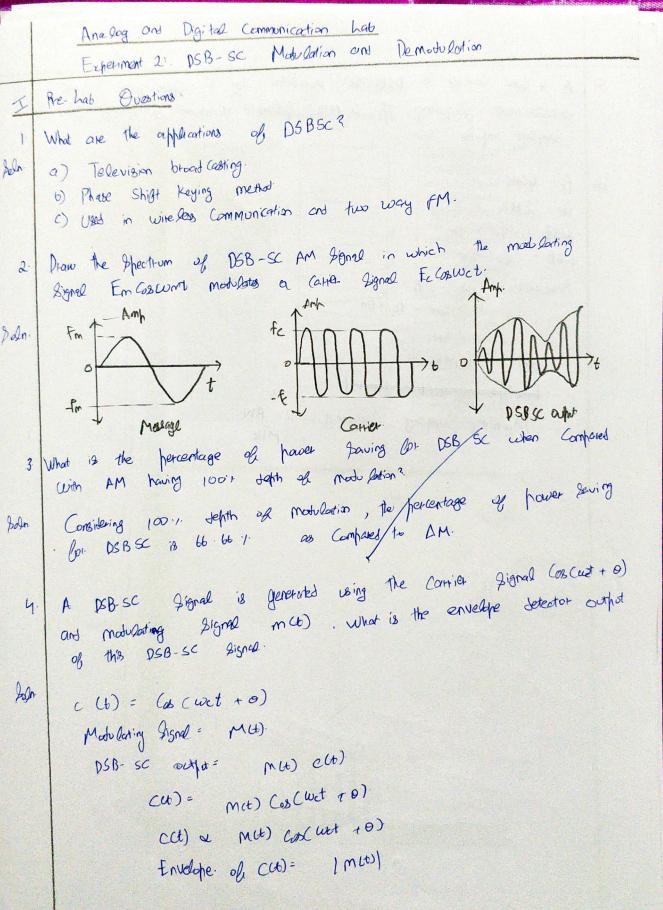
Demodulated output							
Signal Type	Amplitude	Time Period	Frequency				
Sine wave	1-22V	0.4 mg	2.5 RHZ				

2.7 POST LAB QUESTIONS

 Use SCILAB to produce DSBSC wave for a sinusoidal modulating signal of 1 KHz and carrier signal of 10 KHz.

2.8 LAB RESULT

Thus the DSB-SC modulation and demodulation was performed.



A 4 Gite Catilet is DSB-SC modulated by a faw how signed with a more more more greatery of the familiary impulse their

Self fc = agite
fm = 2 Mile
USB = fc + fm
L6B = fc - fm
Bandwith = USB - LSB
= fc + fm - fc + fm
= 2 fm
BW = 4 MHz

Mining ampling arequery = 2× BW
= 8 MHz