**SAMPLE FOR WRITING OBSERVATION, PROCEDURE AND CONCLUSION**

**OBJECTIVE:**

The objective of this lab is to analyze the modulated signal by using DSB/SSB AM transmitter .

**PROCEDURE:**

1. Turn on the trainer ST2201.
2. Switch the mode switch on DSB position.
3. Speaker is switched to ‘off ‘position.
4. Now connect the negative probe of oscilloscope to the ground of the trainer. Connect the positive terminal with the audio oscillator which will produce the sin wave as a modulating signal with the frequency of 300 Hz to 3.4 KHz.
5. Now connect the oscilloscope to the output of carrier generator 1. The carrier will be generated of 1MHz frequency with the amplitude of 120m Vpp.
6. The two signals, Modulating and carrier signal is given as an input to the balance modulator. The module contains the modulator along with the band pass filter.
7. Monitor the output of balance modulator. The output is the DSB AM modulated signal formed by 1MHz carrier sin wave with the audio frequency sin wave from audio oscillator.

**CONCLUSION:**

We observed the DSB and DSB-SC Amplitude modulated signal in time domain. The modulated signal will have the half amplitude and double bandwidth to modulating signal.