Objective:

To perform FM demodulation using Phase Locked Loop (PLL).
Components Of Phase Locked Loop (PLL)-

Procedure:

1. Connect the FM demodulator circuit as shown above.

2. Take FM input from function generator. You need to share this signal with neighboring group using T. Keep carrier frequency $F_c=35$ KHz and amplitude $= 5$ Vpp and message signal frequency $F_m= 1$ KHz and amplitude $= 4$Vpp.

3. Observe the demodulated output across C4, and measure the frequency of demodulated output and compare with message signal.

4. Draw waveforms of message signal, FM signal and demodulated signal.

5. Vary modulating signal frequency and observe the output.

Comments:

1. What is the effect of varying the modulating signal frequency on the demodulated output? Give reasons for the observed behavior.