

## Pre Experimental Quiz: Experiment 1

1. At microwave frequencies, why are waveguides preferred over transmission for transporting EM energy?
2. When does an evanescent mode occur?
3. What is dominant mode? The dominant mode for rectangular waveguide is \_\_\_\_\_.
4. Note down the field components that would exist for  $TE_{30}$  mode.
5. Define VSWR.
6. Why is a modulator required in the experimental setup of microwave benches?
7. How is a standing wave formed?
8. What is the VSWR of a line terminated in matched load, short circuit and open circuit?