

Questions :

1. Why the name timer? Explain in detail.
2. IC 555 timer belongs to SSI, MSI or LSI. Justify your answer.
3. Specify different modes of IC 555. Mention application of each mode in industry.
4. What is duty cycle? Can we have 50 % duty cycle output in astable mode, explain in detail.
5. Design an astable multivibrator to get $T_{on} = 25$ msec and $T_{off} = 15$ msec. (Assume $C = 0.01$ microfarad).