

## Two Marks Question

1. State Kirchhoff's law
2. Define voltage source.
3. Define load.
4. Write down the difference between conductor and semiconductor.
5. What is the need of biasing?
6. Write down the difference between oscillator and amplifier?
7. What is modulation and type of modulation?
8. What's the function of commutator in DC generator?
9. What is passive transducer?
10. Write two application of multimeter?
11. Define electronic emission?
12. Differentiate between AC and DC?
13. State Ohm's Law?
14. Define power factor?
15. What is doping?
16. Write different type of wiring in domestic installation?
17. Define Knee voltage and breakdown voltage?
18. Why filter is needed in rectifier circuit?
19. Define RMS and average value of AC?
20. Classify the type of DC generator?
21. What do you mean by impedance triangle?
22. Draw the common emitter transistor configuration?
23. State any two use of IC?
24. What do you mean by star rating of home appliance?
25. What is the advantage of Full wave rectifier?
26. What is power?
27. Unit of power, voltage, current and charge?
28. What is the primary usage of a transistor in an electric circuit?
29. What is Form Factor?
30. Difference between parallel and series configuration?

## Five marks Question

1. Describe the type of electronics emission.
2. Difference between intrinsic and extrinsic semiconductor.
3. Describe avalanche and Zener breakdown.
4. Write down the principle of working of LED.
5. What is rectifier? Write down the working principle of different type rectifier.
6. Explain type of basic filter circuit with proper circuit diagram.

7. Explain the need of biasing.
8. Explain fixed biasing of common emitter configuration.
9. Derive the relation between  $\alpha$  and  $\beta$  for a transistor.
10. Explain the working principle of single phase CE amplifier.
11. Explain the working of basic oscillator with block diagram.
12. Explain different type of modulation.
13. Explain the working of LC filter.
14. Discuss the difference between voltage and power amplifier.
15. Classify and explain the solid according to electrical conductivity with respect to energy band diagram.
16. What is the main parts and operation of DC generator?
17. Describe the alternating current (AC) through capacitor with phasor Diagram.
18. Explain the operating working LVDT with a neat diagram.
19. Write down construction of and principle of filament lamp.
20. Write a block diagram and explain the working of unregulated DC power supply system.
21. Difference between vacuum tube and semiconductor.
22. Describe about the PMMC type measurement briefly.
23. Explain the concept of transducer and sensor and state the difference between

### Ten marks Questions.

1. Write short notes of Zener break down and Avalance breakdown.
2. Describe about amplitude and frequency modulation.
3. Explain about thermal power plant in detail with neat diagram.
4. Explain about nuclear power plant in detail with neat diagram.
5. Explain about hydro power plant in detail with neat diagram.
6. Draw and explain the block diagram of CRO and also write down the application.
7. Explain the working principle and use of PN junction diode with circuit diagram.

