

**Sample Question Paper-I**

**Course Name : Computer Engineering Group**

**Course Code : CO/CM/IF/CD**

**Semester : Second**

**Subject Title : Electronics**

**Max Marks : 100**

**12025**

**Time: 3 Hours**

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**Instructions:**

1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.

**Q.1 Attempt Any TEN of the Following:**

**2 X 10 = 20**

- a) Define electronics and give its two applications.
- b) Draw and label energy band diagram of intrinsic semiconductor.
- c) What is doping.
- d) Define depletion region for diode.
- e) List types of rectifiers.
- f) Draw circuit diagram of  $\pi$  filter.
- g) Draw internal structure of NPN transistor.
- h) List the type couplings used to cascade the two stages of amplifiers.
- i) State applications of FET.
- j) List the advantages of IC over discrete component.
- k) Define  $\alpha$  and  $\beta$  for transistor.
- l) Draw internal structure of n type semiconductor.

**Q.2 Attempt Any FOUR of the Following:**

**4 X 4 = 16**

- a) Describe with diagram generation of electron – hole pair in an intrinsic semiconductor.
- b) Why semiconductor is called as insulator at  $0^{\circ}$  Kelvin.
- c) Describe formation of depletion region in an open circuit PN junction.
- d) Draw circuit diagram to plot the characteristics of zener diode in reverse biased mode.
- e) Draw the symbol of step up and step down transformer.
- f) Describe the operation of pn junction under forward bias condition.

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**TD Snyder**



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