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

 $2 \times 10 = 20$

Instructions:

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

Q.1 Attempt Any TEN of the Following:

- 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 π filter.
- g) Draw internal structure of NPN transistor.
- List the type couplings used to cascade the two stages of amplifiers.
- State applications of FET.
- List the advantages of IC over discrete component.
- k) Define alpha and β for transistor.
- Draw internal structure of n type semiconductor.

Q.2 Attempt Any FOUR of the Following:

- $4 \times 4 = 16$ a) Describe with diagram generation of electron - hole pair in an intrinsic semiconductor.
- b) Why semiconductor is called as insulator at 0⁰ Kelvin.
- 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.
- Describe the operation of pn junction under forward bias condition.

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Ying-Ying Zheng

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