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.

Marcel A. Müller

Sample Question Paper Diploma Computer Engineering Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Sample Question Paper Diploma Computer Engineering**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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