

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

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 π 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 α and β 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° 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.

Msbte Sample Question Paper Sem G Scheme 10marks Me

J Elliott



Msbte Sample Question Paper Sem G Scheme 10marks Me:

This book delves into Msbte Sample Question Paper Sem G Scheme 10marks Me. Msbte Sample Question Paper Sem G Scheme 10marks Me is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Msbte Sample Question Paper Sem G Scheme 10marks Me, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Msbte Sample Question Paper Sem G Scheme 10marks Me
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 - Chapter 3: Msbte Sample Question Paper Sem G Scheme 10marks Me in Everyday Life
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 - Chapter 5: Conclusion
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web may 2 2016 the province of orissa was formed in april 1936 when the all india kisan sabha had its first conference at lucknow 11 april 1936 orissa was represented by mahtab lingaraj misra nabakrushna chaudhury bhagirathi mahaptra and surendranath dwivedyi13 swami sahananand saraswati was elected as the president in a

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