

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.

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Table of Contents Msbte Sample Question Paper 2014 G Scheme

1. Understanding the eBook Msbte Sample Question Paper 2014 G Scheme
 - The Rise of Digital Reading Msbte Sample Question Paper 2014 G Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Msbte Sample Question Paper 2014 G Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Msbte Sample Question Paper 2014 G Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msbte Sample Question Paper 2014 G Scheme
 - Personalized Recommendations
 - Msbte Sample Question Paper 2014 G Scheme User Reviews and Ratings
 - Msbte Sample Question Paper 2014 G Scheme and Bestseller Lists
5. Accessing Msbte Sample Question Paper 2014 G Scheme Free and Paid eBooks
 - Msbte Sample Question Paper 2014 G Scheme Public Domain eBooks
 - Msbte Sample Question Paper 2014 G Scheme eBook Subscription Services
 - Msbte Sample Question Paper 2014 G Scheme Budget-Friendly Options

6. Navigating Msbte Sample Question Paper 2014 G Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Msbte Sample Question Paper 2014 G Scheme Compatibility with Devices
 - Msbte Sample Question Paper 2014 G Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msbte Sample Question Paper 2014 G Scheme
 - Highlighting and Note-Taking Msbte Sample Question Paper 2014 G Scheme
 - Interactive Elements Msbte Sample Question Paper 2014 G Scheme
8. Staying Engaged with Msbte Sample Question Paper 2014 G Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msbte Sample Question Paper 2014 G Scheme
9. Balancing eBooks and Physical Books Msbte Sample Question Paper 2014 G Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msbte Sample Question Paper 2014 G Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Msbte Sample Question Paper 2014 G Scheme
 - Setting Reading Goals Msbte Sample Question Paper 2014 G Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Msbte Sample Question Paper 2014 G Scheme
 - Fact-Checking eBook Content of Msbte Sample Question Paper 2014 G Scheme
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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