

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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Richard C. Sweetland, Daniel J. Keyser

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Table of Contents Sample Question Paper Diploma Computer Engineering

1. Understanding the eBook Sample Question Paper Diploma Computer Engineering
 - The Rise of Digital Reading Sample Question Paper Diploma Computer Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Question Paper Diploma Computer Engineering
 - 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 Sample Question Paper Diploma Computer Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Question Paper Diploma Computer Engineering
 - Personalized Recommendations
 - Sample Question Paper Diploma Computer Engineering User Reviews and Ratings
 - Sample Question Paper Diploma Computer Engineering and Bestseller Lists
5. Accessing Sample Question Paper Diploma Computer Engineering Free and Paid eBooks
 - Sample Question Paper Diploma Computer Engineering Public Domain eBooks
 - Sample Question Paper Diploma Computer Engineering eBook Subscription Services
 - Sample Question Paper Diploma Computer Engineering Budget-Friendly Options

6. Navigating Sample Question Paper Diploma Computer Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Question Paper Diploma Computer Engineering Compatibility with Devices
 - Sample Question Paper Diploma Computer Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Question Paper Diploma Computer Engineering
 - Highlighting and Note-Taking Sample Question Paper Diploma Computer Engineering
 - Interactive Elements Sample Question Paper Diploma Computer Engineering
8. Staying Engaged with Sample Question Paper Diploma Computer Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Question Paper Diploma Computer Engineering
9. Balancing eBooks and Physical Books Sample Question Paper Diploma Computer Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Question Paper Diploma Computer Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sample Question Paper Diploma Computer Engineering
 - Setting Reading Goals Sample Question Paper Diploma Computer Engineering
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sample Question Paper Diploma Computer Engineering
 - Fact-Checking eBook Content of Sample Question Paper Diploma Computer Engineering
 - 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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