

**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**

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**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  $\pi$  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  $\alpha$  and  $\beta$  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  $0^{\circ}$  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 Sample Paper Msbte 17321 G Scheme Bing**

1. Understanding the eBook Sample Paper Msbte 17321 G Scheme Bing
  - The Rise of Digital Reading Sample Paper Msbte 17321 G Scheme Bing
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Paper Msbte 17321 G Scheme Bing
  - 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 Paper Msbte 17321 G Scheme Bing
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Paper Msbte 17321 G Scheme Bing
  - Personalized Recommendations
  - Sample Paper Msbte 17321 G Scheme Bing User Reviews and Ratings

- Sample Paper Msbte 17321 G Scheme Bing and Bestseller Lists
- 5. Accessing Sample Paper Msbte 17321 G Scheme Bing Free and Paid eBooks
  - Sample Paper Msbte 17321 G Scheme Bing Public Domain eBooks
  - Sample Paper Msbte 17321 G Scheme Bing eBook Subscription Services
  - Sample Paper Msbte 17321 G Scheme Bing Budget-Friendly Options
- 6. Navigating Sample Paper Msbte 17321 G Scheme Bing eBook Formats
  - ePub, PDF, MOBI, and More
  - Sample Paper Msbte 17321 G Scheme Bing Compatibility with Devices
  - Sample Paper Msbte 17321 G Scheme Bing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Paper Msbte 17321 G Scheme Bing
  - Highlighting and Note-Taking Sample Paper Msbte 17321 G Scheme Bing
  - Interactive Elements Sample Paper Msbte 17321 G Scheme Bing
- 8. Staying Engaged with Sample Paper Msbte 17321 G Scheme Bing
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Paper Msbte 17321 G Scheme Bing
- 9. Balancing eBooks and Physical Books Sample Paper Msbte 17321 G Scheme Bing
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sample Paper Msbte 17321 G Scheme Bing
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Paper Msbte 17321 G Scheme Bing
  - Setting Reading Goals Sample Paper Msbte 17321 G Scheme Bing
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Paper Msbte 17321 G Scheme Bing
  - Fact-Checking eBook Content of Sample Paper Msbte 17321 G Scheme Bing
  - 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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