

Code No: 07A10401

Set No. 1

I.B.Tech Regular Examinations, May/Jun 2008  
**BASIC ELECTRONIC DEVICES AND CIRCUITS**  
(Electrical & Electronic Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

1. (a) Derive the expressions for acceleration, Velocity and displacement of a charged particle placed in an electric field  $E$ .  
(b) Two parallel plates of a capacitor are separated by 4 cms. An electron is at rest initially at the bottom plate. Voltage is applied between the plates, which increases linearly from 0V to 8V in 0.1 m.sec. If the top plate is +ve, determine:
  - i. The speed of electron in 40 m sec
  - ii. The distance traversed by the electron in 40 m sec. [8+8]
2. (a) What are the various applications of p-n junction diode? Explain them.  
(b) What are the specifications of p-n junction diode? Explain how reverse saturation current varies with temperature both Si and Ge diodes.  
(c) Explain about the characteristics of zener diode. [5+6+5]
3. (a) A 15-0-15 Volts (rms) ideal transformer is used with a full wave rectifier circuit with diodes having forward drop of 1 volt. The load is a resistance of 100 ohm and a capacitor of 10,000 F is used as filter across the load resistance. Calculate the dc load current and voltage.  
(b) Explain the working of the half wave rectifier circuit with neat sketch of waveforms at various points in the circuit. [8+8]
4. (a) A transistor operating in CB configuration has  $IC = 2.98 \text{ mA}$ ,  $IE = 3.00 \text{ mA}$  and  $ICO = 0.01 \text{ mA}$ . What current will flow in the collector circuit of this transistor when connected in CE configuration with a base current of 30 A.  
(b) The reverse saturation current in a transistor is 8 A. If the transistor common base current gain is 0.979, calculate the collector and emitter current for 40 A base current. [8+8]
5. (a) Compare the advantages and disadvantages of biasing schemes.  
(b) Calculate the quiescent current and voltage of collector to base bias arrangement using the following data:  
 $V_{cc} = 10V$ ,  $R_b = 100K$ ,  $R_c = 2K$ ,  $-50$  and also specify a value of  $R_b$  so that  $V_{ce} = 7V$ . [8+8]
6. (a) A transistor used in CB circuit has the following set of h parameters,  $h_{ib} = 20$ ,  $h_{ie} = 0.98$ ,  $h_{re} = 3 \times 10^{-4}$ ,  $h_{oe} = 0.5 \times 10^{-6}$ . Find the values of  $R_b$ ,  $R_c$ ,  $A_v$  and  $A_{vdc}$  [8+8]

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## **Table of Contents Pdf Basic Electronic Paper With Answer**

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

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