



**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGRLE EXAMINATION  
MAY 2012**

**EC 09 403/PT EC 09 402—ELECTRONIC CIRCUITS**

**(2009 admissions)**

**Time : Three Hours**

**Maximum : 70 Marks**

**Part A**

1. Define ripple factor.
2. What is a bode plot ?
3. Define CMRR.
4. State an application of monostable multivibrator and Schmitt trigger.
5. What is the principle of low power transformers ?

**(5 × 2 = 10 marks)**

**Part B**

*Answer any four questions.*

1. Discuss briefly on inductors.
2. Discuss the low and high frequency response of common emitter amplifier.
3. Discuss the characteristics of UJT.
4. Discuss the working of transistor as a switch.
5. Draw the hybrid  $\pi$  and  $r$  models of BJT. Discuss the effect of temperature on BJT model parameters.
6. Discuss on the stability of oscillators.

**(4 × 5 = 20 marks)**

**Part C**

1. (a) Discuss the working and efficiency of L, C and LC filters.

*Or*

- (b) Explain the working of RC coupled multistage amplifier. Discuss its frequency response.

2. (a) Explain the working of class AB amplifier.

*Or*

- (b) Discuss the working of Emitter follower.

3. (a) Discuss the working of Hartley oscillator.

*Or*

- (b) Discuss the frequency response of differential amplifier and methods to improve CMRR of differential amplifier.

4. (a) Explain the working of Schmitt trigger.

*Or*

- (b) Explain the working of a monostable multivibrator.

**(4 × 10 = 40 marks)**

# Polytechnic 4th Semester Production Technology Question Papers

**Marcel A. Müller**



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## **Table of Contents Polytechnic 4th Semester Production Technology Question Papers**

1. Understanding the eBook Polytechnic 4th Semester Production Technology Question Papers
  - The Rise of Digital Reading Polytechnic 4th Semester Production Technology Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Polytechnic 4th Semester Production Technology Question Papers
  - 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 Polytechnic 4th Semester Production Technology Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Polytechnic 4th Semester Production Technology Question Papers
  - Personalized Recommendations
  - Polytechnic 4th Semester Production Technology Question Papers User Reviews and Ratings
  - Polytechnic 4th Semester Production Technology Question Papers and Bestseller Lists
5. Accessing Polytechnic 4th Semester Production Technology Question Papers Free and Paid eBooks

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  - Polytechnic 4th Semester Production Technology Question Papers eBook Subscription Services
  - Polytechnic 4th Semester Production Technology Question Papers Budget-Friendly Options
6. Navigating Polytechnic 4th Semester Production Technology Question Papers eBook Formats
- ePub, PDF, MOBI, and More
  - Polytechnic 4th Semester Production Technology Question Papers Compatibility with Devices
  - Polytechnic 4th Semester Production Technology Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Polytechnic 4th Semester Production Technology Question Papers
  - Highlighting and Note-Taking Polytechnic 4th Semester Production Technology Question Papers
  - Interactive Elements Polytechnic 4th Semester Production Technology Question Papers
8. Staying Engaged with Polytechnic 4th Semester Production Technology Question Papers
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Polytechnic 4th Semester Production Technology Question Papers
9. Balancing eBooks and Physical Books Polytechnic 4th Semester Production Technology Question Papers
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Polytechnic 4th Semester Production Technology Question Papers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Polytechnic 4th Semester Production Technology Question Papers
- Setting Reading Goals Polytechnic 4th Semester Production Technology Question Papers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Polytechnic 4th Semester Production Technology Question Papers
- Fact-Checking eBook Content of Polytechnic 4th Semester Production Technology Question Papers
  - 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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