



**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 π 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)

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Yijin Wang



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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
 - Polytechnic 4th Semester Production Technology Question Papers Public Domain eBooks
 - 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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