

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

RF INTEGRATED CIRCUITS
(Electronics and Communication Engineering)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the conditions for resonance in parallel RLC network.
 - What is reflection coefficient in RF system?
 - What is the relation between bandwidth and rise time for 1st order systems?
 - What is figure of merit for a MOS devices?
 - Define noise figure.
 - What is mixer? Why the uses of mixer?
 - What is meant by negative resistance oscillators?
 - What is the difference between filter and loop filter?
 - Define phase noise.
 - What is CDMA?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 (a) Explain in detail 'P' and 'T'-matching of a network.
(b) Explain in detail the basic architecture of a RF system.

OR

- 3 (a) Compare parallel RLC and series RLC networks.
(b) Explain about passive IC components interconnects in detail.

UNIT – II

- 4 (a) Draw and explain about shunt-series amplifier and write its applications.
(b) Draw and explain about CS-amplifier for a single tuned amplifier.

OR

- 5 Explain and derive bandwidth estimation using open circuit time constant and short circuit time constant.

UNIT – III

- 6 (a) Discuss about thermal noise, flicker noise and noise figure.
(b) Explain in detail LNA design.

OR

- 7 Explain about mixer design and sub sampling mixers.

UNIT – IV

- 8 (a) Explain about class A, AB RF power amplifier with neat diagrams.
(b) Explain about charge pumps and loop filters.

OR

- 9 Write short notes on:
(a) Voltage controlled oscillators.
(b) Negative resistance oscillators.

UNIT – V

- 10 (a) Explain about GSM radio architectures in detail with suitable diagram.
(b) Discuss about integer-N synthesis and fractional frequency synthesis.

OR

- 11 Write short notes on:
(a) UMTS radio architectures.
(b) CDMA radio architectures.

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Table of Contents Jntua Previous Question Papers

1. Understanding the eBook Jntua Previous Question Papers
 - The Rise of Digital Reading Jntua Previous Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Jntua Previous 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 Jntua Previous Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jntua Previous Question Papers
 - Personalized Recommendations
 - Jntua Previous Question Papers User Reviews and Ratings
 - Jntua Previous Question Papers and Bestseller Lists
5. Accessing Jntua Previous Question Papers Free and Paid eBooks
 - Jntua Previous Question Papers Public Domain eBooks
 - Jntua Previous Question Papers eBook Subscription Services
 - Jntua Previous Question Papers Budget-Friendly Options
6. Navigating Jntua Previous Question Papers eBook Formats

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