

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**

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

OR

- Compare parallel RLC and series RLC networks.
 - Explain about passive IC components interconnects in detail.

UNIT – II

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

OR

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

UNIT – III

- Discuss about thermal noise, flicker noise and noise figure.
 - Explain in detail LNA design.

OR

- Explain about mixer design and sub sampling mixers.

UNIT – IV

- Explain about class A, AB RF power amplifier with neat diagrams.
 - Explain about charge pumps and loop filters.

OR

- Write short notes on:
 - Voltage controlled oscillators.
 - Negative resistance oscillators.

UNIT – V

- Explain about GSM radio architectures in detail with suitable diagram.
 - Discuss about integer-N synthesis and fractional frequency synthesis.

OR

- Write short notes on:
 - UMTS radio architectures.
 - CDMA radio architectures.

Jntua Previous Question Papers

**Dr. Nitin G Sutar, Mr. Sachin Puri
Goswami, Mr. Rajdip Goswami,
Dr.G.S.Hiremath, Dr. S. Prakash Rao**

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Mathematical Foundations of Computer Science /Discrete Mathematics: For JNTUK and JNTUA Dr. S. K. Sarkar & Dr. M.V.S.S.N. Prasad, Mathematical Foundations of Computer Science Discrete Mathematics caters to all students of JNTU Kakinada and JNTU Anantapur who study the subject Major topics including but not limited to Set Theory Relations Functions Algebraic Structures Combinatorics and Number Theory have been explained in detail along with the examples which are based on the latest examinations of various institutions *MCQ for Diploma in Pharmacy (D.Pharm) Exit Exam*
Dr. Nitin G Sutar, Mr. Sachin Puri Goswami, Mr. Rajdip Goswami, Dr.G.S.Hiremath, Dr. S. Prakash Rao,2024-08-14
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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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