

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CS2363 - COMPUTER NETWORKS - UNIT 3 & UNIT 4

Year/Semester & Branch: III year /VI Semester & B.E EEE

Faculty Name:

Max. Marks: 100

Date:

Time: 3 hrs

PART-A Answer ALL Questions (10x2=20 Marks)

1. How will you calculate the Estimated RTT, Difference, Deviation & timeout in Jacobson/Karels Algorithm?
2. Techniques to Improve QoS?
3. What are the pointers maintained into the send buffer along with sliding window at sender side?
4. Draw the datagram format of UDP.
5. In RED, what are the rules for comparing Average Length between thresholds?
6. List out the two modes of IP security.
7. Define Kerberos authentication protocol & Give Short Notes.
8. Differentiate flow control from congestion control.
9. How is a secret key different from public key?
10. Give the operation in three way Handshaking with timeline diagram.

PART-B Answer ALL Questions (5x16=80 Marks)

11. (a)
 - (i) Explain the User Datagram protocol in detail. (8)
 - (ii) Explain TCP-Flow Control with Sliding window revisited technique. (8)

OR
11. (b)
 - (i) Draw the TCP state-transition diagram for connection management and explain. (8)
 - (ii) Explain in detail about key predistribution. (8)
12. (a) Briefly Explain the Queuing Disciplines Techniques to improve Quality of service. (16)

OR

12. (b)
 - (i) Explain the mechanism about triggering transmission. (10)
 - (ii) Give Short Notes on Audio Compression (MP3). (6)
13. (a) Describe in detail about TCP segment, features and connection management. (16)

OR

13. (b)
 - (i) What is IP security? Explain in detail. (8)
 - (ii) Explain in detail about Diffie-Hellmann Algorithm. (8)
14. (a) Explain the algorithm for Adaptive Retransmission using TCP. (16)

OR

14. (b)
 - (i) Describe how PGP can be used to provide security at the application layer? (10)
 - (ii) Explain how the firewall can prevent a system from harmful message? (6)
15. (a) Discuss various categories of congestion control, and Briefly explain any two TCP Congestion Control Mechanism. (16)

OR

15. (b) Write a note on congestion avoidance mechanisms(RED and DEC-bit). (16)

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Lingjun Ying



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Table of Contents May June 2014 9742 Question Paper

1. Understanding the eBook May June 2014 9742 Question Paper
 - The Rise of Digital Reading May June 2014 9742 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying May June 2014 9742 Question Paper
 - 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 May June 2014 9742 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from May June 2014 9742 Question Paper
 - Personalized Recommendations
 - May June 2014 9742 Question Paper User Reviews and Ratings
 - May June 2014 9742 Question Paper and Bestseller Lists
5. Accessing May June 2014 9742 Question Paper Free and Paid eBooks
 - May June 2014 9742 Question Paper Public Domain eBooks

- May June 2014 9742 Question Paper eBook Subscription Services
- May June 2014 9742 Question Paper Budget-Friendly Options
- 6. Navigating May June 2014 9742 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - May June 2014 9742 Question Paper Compatibility with Devices
 - May June 2014 9742 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May June 2014 9742 Question Paper
 - Highlighting and Note-Taking May June 2014 9742 Question Paper
 - Interactive Elements May June 2014 9742 Question Paper
- 8. Staying Engaged with May June 2014 9742 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May June 2014 9742 Question Paper
- 9. Balancing eBooks and Physical Books May June 2014 9742 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May June 2014 9742 Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine May June 2014 9742 Question Paper
 - Setting Reading Goals May June 2014 9742 Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of May June 2014 9742 Question Paper
 - Fact-Checking eBook Content of May June 2014 9742 Question Paper
 - 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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