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MCA Semester - III

Subject : MC-14 Networking Technologies-1

Date: 31-Dec-2013

Time: 10:00 a.m. to 1:00 p.m.

Total Marks: 50

Q-1. Answer the following

[10]

1. What is baud & bit rate?
2. Define: Frequency
3. Main difference between flow control and congestion control.
4. What do you mean by broadcasting & multicasting?
5. List data link layer protocols.
6. What is the need of parity bit?
7. Full form of WDMA & MACA
8. What is the main function of Network layer.
9. Which are the protocols at transport layer.
10. List the email protocols with their port number.

Q-2. [A] Answer the following questions.

[5]

1. What is DNS resolver?
2. What is the size of physical address & logical address?
3. Define: authentication
4. List various cipher modes.
5. Why two key needs in asymmetric key algorithm.

[B] Answer the following questions.

[5]

1. Difference between OSI & TCP/IP Model
2. Explain byte stuffing in brief.

OR

1. Explain hidden station problem.
2. Difference between symmetric and asymmetric key algorithms.

Q-3. Answer the following questions.

[10]

1. Explain mobile architecture.
2. Explain CRC method with example.

OR

1. Explain Radio wave, Micro wave & Infrared waves.
2. Explain Go Back N & Selective Repeat protocol.

Q-4. Answer the following questions.

[10]

1. Link state routing algorithm.
2. Explain Three way handshake in TCP.

OR

1. Explain CSMA/CD in detail.
2. Explain any three DNS resource records.

[P.T.O.]

Q-5.

Answer the following questions.

[10]

1. Explain RSA with example.
1. Difference between SMTP & POP3.

OR

1. Explain CBC cipher mode.
2. Explain OSI model in detail.

***** ALL THE BEST *****