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JAYA GROUP OF INSTITUTIONS-THIRUNINRAVUR 602024

6<sup>TH</sup> Semester – B.E. Degree Examination

INTERNAL ASSESSMENT ( MODEL EXAMINATION –III)

Sub. Title : COMPUTER NETWORKS

Date : 11.04.2015

Sub. Code : EC2352

Branch : ECE

Duration : 180 minutes

Max. Marks : 100

**Part A - (10 x 2 = 10) Answer all the Questions:**

1. List the Layers in the OSI Model.
2. Distinguish Circuit Switching and Packet Switching.
3. Write any two functions of Data Link Layer.
4. Draw the Frame format for Bit oriented protocols.
5. What is the need for Adaptive Routing Algorithms?.
6. What is the Specialty of DHCP?.
7. What is a Retransmission Timer?.
8. Draw the UDP Header.
9. List the three parts of URL.
10. Distinguish Substitution and Transposition Cipher.

**Part B - (5 x 16 = 80) Answer As per the Choice:**

- 11.(a) Explain in Detail various Guided Transmission Media. (16)

OR

- (b) Explain the Data transfer in Cable TV. (16)

- 12.(a) Discuss in detail one-bit sliding window protocol; Go Back N and Selective Repeat Protocol. (16)

OR

- (b) With neat diagram explain Bluetooth protocol stack. (16)

- 13.(a) Explain Link state routing and broadcast routing with example. (16)

OR

- (b) How do IP addresses get mapped onto data link layer addresses, such as Ethernet? Explain with an example. (16)

14. (a) With neat diagram explain TCP connection establishment in the normal case and collision case. (16)

OR

- (b) Explain the techniques to improve QoS. (16)

15. (a) Explain about HTTP with neat diagram. (16)

OR

- (b) With proper example explain the authentication using kerberos and public key cryptography. (16)