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**Question Paper Code: 31852**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Fifth Semester

Information Technology

01UIT502 – COMPUTER NETWORKS

(Common to Computer Science and Engineering)

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. State the issues of data link layer.
2. Compare error detection and correction.
3. Illustrate the advantage of FDDI over a basic token ring.
4. What is piconet?
5. Give the difference between packet switching and circuit switching.
6. Define distance vector multicast routing protocol.
7. What is the difference between congestion control and flow control?
8. List some of the quality of service parameters of transport layer.
9. Mention the different levels in domain name space.
10. Define WWW and SMTP.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain sliding window flow control and stop and wait flow control with neat diagram. (16)

Or

- (b) Draw the OSI Network architecture and explain the functionalities of each layer in detail. (16)

12. (a) Describe the CSMA/CD protocol and comment on its performance for medium access. (16)

Or

- (b) (i) Write short notes on Fiber Distributed Data Interface (FDDI) with its specification. (8)

- (ii) Write the steps involved in token ring algorithm and describe how to maintain token ring. (8)

13. (a) Demonstrate the class full IP address with its types and example. (16)

Or

- (b) Give explanation about border gateway protocol with neat sketch. (16)

14. (a) Discuss TCP congestion avoidance algorithm in detail. (16)

Or

- (b) If UDP does not provide any service guarantees or reliable transfer, why can't the application directly access IP? Explain UDP in detail. (16)

15. (a) Explain the role of a DNS on a computer network, including its involvement in the process of a user accessing a web page. (16)

Or

- (b) Illustrate the features of TELNET. What is the need for network virtual terminal. (16)
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