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Question Paper Code: 35802

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

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. Define flow control. Mention the categories of it.

3. How does a bridge differ from a repeater?

4. What is piconet?

5. What is meant by packet switching?

6. Mention the uses of ARP and RARP protocols.

7. What is the difference between congestion control and flow control?

8. List the uses of UDP.

9. Define URL.

10. Define WWW and SMTP.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain in detail about Cyclic Redundancy Check (CRC). (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) Explain in detail the architecture and addressing mechanism of IEEE 802.11. (16)

13. (a) Explain distance vector routing and link state routing. (16)

Or

(b) Explain in detail various error reporting and query messages of ICMP. (16)

14. (a) Explain how QoS is provided through Integrated Services and Differentiated Services. (16)

Or

(b) Why does congestion occur in a network? Explain in detail about one congestion control technique. (16)

15. (a) Illustrate the classification of firewalls. (16)

Or

(b) (i) Illustrate the classification of firewalls. (10)

(ii) Illustrate how FTP differs from client server application. (6)

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