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Question Paper Code : 57259

31/05/2016

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Sixth Semester

Electronics and Communication Engineering

CS 6551 – COMPUTER NETWORKS

(Common to Fourth Semester – Computer Science and Engineering/ Fifth Semester – Information Technology)

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. Define flow control.
2. Write the parameters used to measure network performance.
3. Define hidden node problem.
4. What is Bluetooth ?
5. Expand ICMP and write the function.
6. Write the types of connecting devices in internetworking.
7. What do you mean by slow start in TCP congestion ?
8. List the different phases used in TCP connection.
9. Define URL.
10. Mention the different levels in domain name space.

PART – B (5 × 16 = 80 Marks)

11. (a) Explain any two error detection mechanism in detail. (16)

OR

- (b) Explain in detail about :
- (i) HDLC (8)
 - (ii) PPP (8)

12. (a) Give the comparison between different wireless technologies ? Enumerate 802.11 protocol stack in detail. (16)

OR

- (b) Write a short on :
- (i) DHCP (8)
 - (ii) ICMP (8)

13. (a) With a neat diagram explain Distance vector routing protocol. (16)

OR

(b) Explain about IPV6 ? Compare IPV4 and IPV6. (16)

14. (a) Define UDP. Discuss the operations of UDP. Explain UDP checksum with one example. (16)

OR

(b) Explain in detail the various TCP congestion control mechanisms. (16)

15. (a) (i) Describe how SMTP protocol is used in E-mail applications. (8)
- (ii) Explain HTTP with an example. (8)

OR

(b) Explain in detail about Web service architecture. (16)