Reg. No. ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 57259

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)**

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