Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 27176

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Fourth Semester

Computer Science and Engineering

CS 6551 — COMPUTER NETWORKS

(Common to Fifth Semester – Information Technology)

(Regulations 2013)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the issues of data link layer.

2. Define the term protocol.

3. Define sub-netting.

4. What is the need of ARP?

5. Identify the class of the following IP Address :

    (a)   110.34.56.45

    (b)   212.208.63.23

6. Define routing.

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

8. What do you mean by QOS?

9. Mention the types of HTTP messages.

10. What is SMTP?

PART B — (5 × 16 = 80 marks)

11. (a)   Draw the OSI network architecture and explain the functionalities of every layer in detail.   (16)

Or

    (b)   Explain the various flow control mechanisms.   (16)

12. (a) Write short notes on :

   (i) Ethernet. (8)

   (ii) Wireless Lan. (8)

   Or

   (b) Explain in detail ARP, DHCP,ICMP. (16)

13. (a) Describe distance vector routing. (16)

   Or

   (b) Explain multicast routing in detail. (16)

14. (a) With neat architecture, explain TCP in detail. (16)

   Or

   (b) Explain TCP congestion control methods. (16)

15. (a) Explain in detail of about domain name system. (16)

   Or

   (b) Write short notes on the following :

   (i) Email. (8)

   (ii) HTTP. (8)