Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : Q 2157

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Eighth Semester

Electrical and Electronics Engineering

CS 1036 — INTERNETWORKING TECHNOLOGY

(Regulation 2004)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define the term network.

2. Give the use of repeaters.

3. What is meant by subnet addressing?

4. Mention the use of ARP. List the two types of physical addresses.

5. Give the purpose of Internet protocol.

6. What is meant by forwarding? List of the forms of forwarding.

7. Give the use of TCP.

8. What is meant by TCP segment? Give its format.

9. What is the use of SMTP?

10. What are the features of telnet?

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail the following :

    (i) Types of networks. (8)

    (ii) Layering. (8)

Or

   (b) Discuss the following :

    (i) Network topology. (8)

    (ii) Client/server model. (8)

12. (a) Discuss in detail the internetworking concepts and architectural model.

Or

   (b) Describe DNS and ARP in detail. (16)

13. (a) (i) Explain Virtual networks. (8)

    (ii) Discuss the use of connectionless delivery system. (8)

Or

   (b) Write about the following :

    (i) Unreliable delivery. (8)

    (ii) Table driven IP routing. (8)

14. (a) (i) Discuss the properties of reliable delivery service. (10)

    (ii) What is TCP protocol? Explain. (6)

Or

   (b) (i) Write about TCP state machine. (8)

    (ii) What is silly window syndrome? Discuss. (8)

2   Q 2157

15. (a) Explain FTP and SNMP in detail. (16)

Or

(b) Discuss in detail

  (i) SMTP. (6)

  (ii) Internet security and firewall design (10)

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