Reg. No. :

C 3340

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2008.

Sixth Semester

Information Technology

IT 1351 — NETWORK PROGRAMMING AND MANAGEMENT

(Regulation 2004)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What are the steps involved in creating a socket on this client side?

2.   Define iterative saver.

3.   What is the difference between the close ( ) system call and shutdown system call?

4.   Write about poll function.

5.   What is the important feature of ICMP?

6.   What is the function of gethostby name ()?

7.   What is the significance of ping?

8.   Define threaded server.

9.   What are the objectives of MIB?

10. What are the goals of RMON?

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail about the TCP/IP layers for Internet working and management. (16)

Or

(b) Write short notes on :

    (i) Iterative server (8)

    (ii) Concurrent server (8)

12. (a) Explain the following concept :

    (i) Server with multiple clients (4)

    (ii) Server process crashes (4)

    (iii) Server host crashes (4)

    (iv) Server crashes and reboots (4)

Or

(b) Write short notes on :

    (i) Select function (8)

    (ii) Poll function (8)

13. (a) Discuss about IP socket option and ICMP socket options in detail with suitable example. (16)

Or

(b) Write a UDP socket program to implement a echo server and echo client. (16)

14. (a) Write short notes on :

    (i) IPV4 & IPV6 interoperability (8)

    (ii) Mutexes. (8)

Or

(b) Explain the trace route program with sample code and example. (16)

15. (a) Explain the architecture of SNMP in detail. (16)

Or

(b) Explain the following :

(i) RMON (8)

(ii) Compare SNMPV2 & SNMPV3. (8)

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