Roll No. | | | | | | | | | | |

B.E / B.Tech (Part Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2014

INFORMATION TECHNOLOGY

Semester V

PTIT382 & NETWORK PROGRAMMING AND MANAGEMENT

(Regulation 2005)

Time: 3 Hours | Answer ALL Questions | Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. What is socket address?
2. Differentiate little-endian byte order and big-endian byte order.
3. What is signal? What is the use of 'SIGPIPE' signal?
4. Differentiate shutdown of server host from server crash.
5. Explain the function 'recvfrom' with its arguments.
6. Write down the responsibilities of ICMP.
7. List out the limitations of IPv4.
8. Differentiate TCP and UDP connections.
9. What is RMON?
10. What is SNMP trap?

Part – B (5 x 16 = 80 marks)

11. i) With neat diagram explain the TCP/IP protocol stack in detail. (10)

    ii) Differentiate Iterative and concurrent servers. (6)

12. a) Write a TCP echo client/server example with necessary elementary functions. (16)

    OR

    b) Explain the various I/O models in detail. (16)

13. a) Explain the elementary UDP socket functions in detail. (16)

    OR

    b) Explain the applications and working principle of DNS with suitable example. (16)

14. a) Explain the ping program with necessary functions. (16)

    OR

    b) What are the advantages of raw sockets? Explain the raw socket creation, raw socket output and raw socket input in detail. (16)

15. a) Explain the SNMP protocol in detail. (16)

    OR

    b) Does SNMPv3 replace SNMPv1 or SNMPv2? Explain the features supported by SNMPv3. (16)