Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 31512

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Seventh Semester

Computer Science and Engineering

IT 2351/IT 61/10144 IT 601 — NETWORK PROGRAMMING AND MANAGEMENT

(Common to Sixth Semester — Information Technology)

(Regulation 2008/2010)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How the port numbers are classified?

2. What is Socket?

3. Define Posix Signal Handling?

4. Define Wait () and waitpid () functions?

5. Define *getsockopt* and *setsockopt*.

6. What are the RES_USE_INET6 Resolver Option?

7. Define threads.

8. List any two differences between ping and trace route program.

9. What are the improvements in SNMPV2?

10. What is MIB?

PART B — (5 × 16 = 80 marks)

11. (a) Draw a TCP socket flow diagram and explain the functions. (16)

Or

(b) Explain the following in detail

(i) Iterative server (8)

(ii) Concurrent server. (8)

12. (a) Write the pseudo code for TCP echo Server and echo Client program. (16)

Or

(b) Explain in detail about the various I/O models in Unix operating system. (16)

13. (a) Write the program for UDP echo Server and echo Client. (16)

Or

(b) Describe the functions and main components of DNS. (16)

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

Or

(b) Write notes on

(i) Raw socket creation (4)

(ii) Raw socket output (6)

(iii) Raw socket input. (6)

15. (a) Explain Network Management Software Architecture in details. (16)

Or

(b) Explain MIB -II in detail. (16)