

LIB
27/5/13 FN

Reg. No. :

Question Paper Code : 21512

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Seventh Semester

Computer Science and Engineering

IT 2351/IT 61/IT 1352/10144 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. Define socket.
2. Give the syntax of byte ordering functions.
3. Give the syntax of poll function.
4. Differentiate between select and pselect.
5. Give the advantage of gethostbyaddr function.
6. How are the services get mapped to the corresponding port numbers?
7. How are IPV4 and IPV6 interoperable?
8. What is the usage of trace route program?
9. Define MIB's.
10. Give the advantage of SNMPV2 over SNMPV1.

PART B — (5 × 16 = 80 marks)

11. (a) (i) What are address conversion functions? Explain. (6)
- (ii) Explain in detail about TCP socket functions with a neat sketch and syntax. (10)

Or

- (b) (i) Differentiate between Iterative server and concurrent server with an example code. (8)
- (ii) Discuss about various TCP/IP protocols. (8)

12. (a) (i) Explain how are server with multiple clients handled? (10)
(ii) Write a TCP echo client/server program. (6)

Or

- (b) (i) Explain any two I/O models with a neat sketch. (6)
(ii) Explain I/O Multiplexing and their implementation. (10)
13. (a) Explain in detail about the various socket options in details. (16)

Or

- (b) (i) Discuss on UDP chat application. (8)
(ii) Write short note on DNS. (8)
14. (a) Explain the threaded servers, thread creation and termination and discuss TCP echo server using threads. (16)

Or

- (b) Describe RAW sockets in detail with an example program. (16)
15. (a) Discuss the simple network management component in the internet. (16)

Or

- (b) Write a detailed note on RMON. (16)