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2/2/16 FN

Reg. No. :

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Question Paper Code : 21762

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Seventh Semester

Computer Science and Engineering

IT 2351/IT 61/10144/IT 601/IT 1352 — NETWORK PROGRAMMING AND
MANAGEMENT

(Common to Sixth Semester – Information Technology)

(Regulations 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define socket programming.
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 gethostbyadr function.
6. How the services get mapped to the corresponding port numbers?
7. Discuss IPV4 and IPV6 are 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 neat sketch and syntax. (10)

Or

- (b) (i) Differentiate between Iterative server and concurrent server with example code. (8)
(ii) Discuss about the importance of TCP/IP protocols. (8)
12. (a) (i) Explain how server with multiple clients are 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 detail. (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 short note on RMON. (16)