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**Question Paper Code : 51762**

**B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016**

**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. Write a generic socket address structure.
2. Give the little-endian and big-endian byte order for a 16-bit integer.
3. What are the functions that are used to provide the capabilities of I/O Multiplexing ?
4. Differentiate wait and waitpid.
5. In what situation would an application programmer be most likely to use the sctp\_peeloff( ) function ?
6. In a Domain Name System what is the use of sendmail ( ) function ?
7. What are the problems with fork ( ) function ?
8. What is mutual exclusion ?
9. What are the key functions of an SNMP Manager ?
10. What are the main features of SNMPv3 ?

**PART – B (5 × 16 = 80 Marks)**

11. (a) Explain briefly on socket address structures. (16)

**OR**

(b) With an example explain the TCP preforking technique. (16)

12. (a) Write short notes on Input/Output models. (16)

**OR**

(b) Explain the following :

(i) listen() function (8)

(ii) accept( ) function (8)

13. (a) Explain briefly the socket functions for UDP client/server. (16)

**OR**

(b) With an example explain :

(i) gethostbyadr( ) function (8)

(ii) gethostbyaddress( ) function (8)

14. (a) Discuss the IPv4 and IPv6 interoperability. (16)

**OR**

(b) Give an overview of the following :

(i) ping( ) (8)

(ii) traceroute( ) (8)

15. (a) Give an overview of SNMP. (16)

**OR**

(b) Explain the standard Management Information Base (MIB). (16)