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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(IT) (2011 onwards) (Sem.-6)

NETWORKING PROGRAMMING

Subject Code : BTIT-601

Paper ID : [A2351]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**1. Write briefly :**

- a) Name various shells of UNIX operating system. Which is most commonly used?
- b) Compare the terms message and system queues.
- c) Differentiate between TCP and UDP sockets.
- d) Name various services of TCP/IP model.
- e) What do you understand by RPC?
- f) Define the term NetBIOS.
- g) Describe the term program and process in UNIX.
- h) What is the purpose of select and poll functions?
- i) What do you mean by SAP?
- j) Describe the authentication process in UNIX.

SECTION-B

2. Discuss the features of UNIX environment which makes it suitable for network programming.
3. Differentiate between IPv4 and IPv6.
4. Describe the Unix Kernel support for a process and show various related data structures.
5. What are semaphores and their role in IPC?
6. What is job control? Discuss the job control features with the help of a block diagram.

SECTION-C

7. What is Socket? How it is created? Discuss various functions used for transmitting and receiving data over sockets.
8.
 - a) What is signal and signal handler? Discuss various POSIX defined signals.
 - b) What are pipes and Queues? How these are used in Inter process communication?
9. Write short notes on the following :
 - a) TLI
 - b) SNA