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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

M.Code : 71171

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****Q1. Answer briefly :**

- a. Which are reliable signals in networks?
- b. Define Groups in Unix.
- c. Write the need of semaphores.
- d. What is difference between pipe and FIFO?
- e. What does Xerox Network Systems (XNS) mean?
- f. What is retransmission in networking?
- g. Discuss select and poll function.
- h. What is difference between IPv4 & IPv6?
- i. What are socket options?
- j. Discuss TLL in transport layer.

### SECTION-B

- Q2 Explain the need of shared memory in Interprocess communication.
- Q3 Discuss the use of NetBIOS over TCP/IP in network programming.
- Q4 What is OSI model and how it communicate data in networks?
- Q5 Give some fundamental differences between TCP and UDP sockets.
- Q6 How does pipe work in Unix? Show with example.

### SECTION-C

- Q7 What are the functions of a transport layer in networking? How it provides logical communication between application processes running on different hosts?
- Q8 Discuss the basics of shell programming. Write a shell script using while loop to print 10 numbers?
- Q9 Define message queue. How POSIX message queues is used for allowing processes to exchange data in the form of messages?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**