

Roll No.

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 TTL 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.