Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

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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.