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

Total No. of Questions : 09

B.Tech. (IT) (2012 to 2017)   (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

1. **Answer briefly :**

   a. Differentiate between job control and non job control.

   b. What is shell programming?

   c. What is a pipe? How it is created in Unix?

   d. What advantage FIFO have over pipes?

   e. Describe mmap function and its uses.

   f. Write a note on NetBIOS.

   g. What is UDP Protocol?

   h. When does the server process crashes?

   i. What is I/O multiplexing?

   j. Explain transport endpoint address format. Why TLI defines generic structure for address format?

SECTION-B

2. What are the properties of FIFO and Pipe?

3. Differentiate between Posix message queues and System V message queues.

4. Brief the way in which TCP client server is different from UDP client server.

5. Explain XNS.

6. Write a note on System V transport layer.

SECTION-C

7. Write briefly POSIX Signal Handling and Termination of Server Process.

8. What is I/O Multiplexing? Explain different types of Synchronous and asynchronous I/O models.

9. Describe the UDP Echo server functions and lost datagram with an example.

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.