

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

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****Q1. Answer briefly :**

- a. Which layers in the Internet model are the network support layers?
- b. What is a peer-to-peer process?
- c. Compare POSIX message queues and system V message queues.
- d. Define datagram distribution service.
- e. Describe the format of TCP segment.
- f. What is secure shell?
- g. Explain external data representation.
- h. Describe the behaviour of TCP client under abnormal conditions.
- i. How are shared memory segments created in UNIX?
- j. Define various socket options available under UNIX.

**SECTION-B**

- Q2. Explain the components and technologies used in SNA.
- Q3. Write an introduction to socket addressing.
- Q4. Write a note on differences between IPv4 and IPv6.
- Q5. Describe the piping process in IPC.
- Q6. What are reliable and unreliable signals?

**SECTION-C**

- Q7. Explain the TCP/IP protocols in detail.
- Q8. Explain various communication protocols and compare the characteristics.
- Q9. Write a detailed note on the I/O models available under UNIX.

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