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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 :

- Which layers in the Internet model are the network support layers?
- What is a peer-to-peer process?
- Compare POSIX message queues and system V message queues.
- Define datagram distribution service.
- Describe the format of TCP segment.
- What is secure shell?
- Explain external data representation.
- Describe the behaviour of TCP client under abnormal conditions.
- How are shared memory segments created in UNIX?
- 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.