

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(CSE/IT) (2011 Onwards) (Sem.-5)

COMPUTER NETWORKS-II

Subject Code : BTCS-501

Paper ID : [A2097]

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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A**Write briefly :**

1. What is the need of security in network communication?
2. List the advantages of IPv6 over IPv4?
3. What do you understand by SKIP?
4. What are the factors that affect the performance of Ad-hoc networks?
5. What are characteristics of a 2G cellular network?
6. List examples of wireless communication system.
7. What is Wireless LAN (WLANs) technology?
8. What are limitations of Bluetooth technology?
9. Why shape of cell is hexagonal in cellular networks?
10. What are soft hands offs?

SECTION-B

11. Draw a neat diagram of Encapsulating Security Payload (ESP) format and explain.
12. What is Internet Key Exchange (IKE) protocol?
13. Explain the features and advantages of TDMA.
14. What are advantages of a wireless LAN (WLANs) as compared to traditional LAN?
15. Is 3G cellular wireless technology superior to 2G technology? Justify.

SECTION-C

16. Explain the architecture of Ad-hoc network, with a neat schematic diagram. Also discuss routing in ad-hoc networks.
17. Write short notes on:
 - a) IPsec
 - b) WLL
18. What are the different techniques used for increasing the capacity and improving the coverage in cellular system?