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Total No. of Pages : 02

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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

1   Write briefly :

   a. Distinguish between vulnerability and threat.

   b. What is authentication header?

   c. What do you understand by SKIP?

   d. What are the factors that affect the performance of Ad-hoc networks?

   e. Name various routing protocols used in Ad-hoc network.

   f. What is IS-95B for CDMA?

   g. What is the role of wireless in local loop (WLL)?

   h. What are the problems encountered in WLAN?

   i. Explain the concept of frequency reuse in brief.

   j. What are soft hands offs?

SECTION-B

2. Compare the features of Ad-hoc networks and Cellular networks.

3. Explain the working of 2G cellular network.

4. What are TDMA and CDMA technologies?

5. Discuss in brief the various channel assignment strategies in wireless system design.

6. What are the different ways to improving the coverage in cellular system?

SECTION-C

7. Write short notes on :

   a) IPsec   6

   b) IPv6   4

8. a) Describe the operation of various phases of Internet Key Exchange (IKE) protocol. 5

   b) What are advantages of ad-hoc networks over traditional network?   5

9. Write short notes on :

   a) WLANs   4

   b) Bluetooth   3

   c) Personal Area Network   3