

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

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

**COMPUTER NETWORKS-II**

Subject Code : BTCS-501

Paper ID : [A2097]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS 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 Write briefly :**

- a) What are multi layer attacks?
- b) What is borrowing strategy in channel assignment?
- c) What is IEEE 802.11 horizontal roaming?
- d) List any two characteristics of key negotiation protocols.
- e) List the different IEEE 802.11 services.
- f) What are advantages of channel routing strategies?
- g) WHAT is UMTS?
- h) What is traffic routing?
- i) What is intersystem handoff?
- j) What are the reasons of using hexagonal cells?

### SECTION-B

- Q2 What are the different types of threats, attacks and vulnerabilities?
- Q3 What is GPRS? Describe the different security and handoff issues in GPRS.
- Q4 What is frequency hopping multiple access? How is it different from CDMA?
- Q5 Describe the main issues of wireless systems which are not in fixed telephone systems.
- Q6 Compare between FDMA, CDMA, TDMA and SDMA.

### SECTION-C

- Q7 Explain the use of different authentication models in adhoc networks. Compare them based on different system configurations. (10)
- Q8 a) Describe the latest trends in cellular radio communications. Explain the evolution of different technologies. (7)
- b) What is frequency reuse? (3)
- Q9 Describe Bluetooth Protocol structure in detail. Describe the changes made in latest standard. (10)