Roll No ....

IT-7003-CBGS
B.E. VII Semester
Examination, December 2020
Choice Based Grading System (CBGS)
Wireless And Mobile Computing

Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.

      ii)   All questions carry equal marks.

1. a) Defined the role of multiple access technique in wireless network. Also explain SDMA, DAMA, PRMA.

   b) Discuss the features of bluetooth enabled devices and their security features.

2. a) Draw and explain the GSM network architecture.

   b) What are the main elements of UMTS ? How UMTS network are different from 2G network?

3. a) What are the advantages of GPRS over GSM?

   b) Discuss the various effecting of mobile radio propagation.

4. a) What are the MAC services of IEEE 802.11 that are not provided in the traditional LAN such as 802.3 ?

   b) What are the principle responsibilities of MAC protocol?

5. a) What do you understand by mobile IP ? Discuss its basic operation.

 b) Explain how routing is performed on Ad-hoc network?

6. a) Write down short notes on
    i) Snooping TCP
    ii) Mobile TCP
    iii) DHCP.

 b) What are the advantages and disadvantages of using Bluetooth Based devices as a sensor network? Explain.

7. a) Compare and contrast I-TCP, Snooping TCP and Mobile TCP.

 b) Explain the following with respect to mobile IP.
    i) IP packet delivery
    ii) Agent discovery
    iii) Registration

8. a) Draw and explain GPRS architecture.

 b) How authentication is possible in wireless LAN. List and discuss the possible attacks on such network.

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