Roll No ....

IT-602-CBGS
B.Tech., VI 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.

iii)In case of any doubt or dispute the English version
    question should be treated as final.

1. a)   What is an Antenna? Draw and explain any two types of
         antennas.

    b)   Why are need multiple access techniques? Write and
         explain any four techniques of multiple access.

2. a) With the help of suitable diagram explain the working of cellular network.

&

b) Define the following terms
   i)   Hand off
   ii) Power control
   iii) Sectorization

3. a) What is GSM? Draw and explain system architecture of GSM.

GSM

b) Differentiate GSM and GPRS technologies.

GSM और GS

4. Explain following protocols.

   i)   DECT   ii) TETRA
   iii) UMTS   iv) DHCP

5. a) Explain LAN-architecture 802.11, a,b and g

      ©   802.11, a,b and g

b) Explain HIPERLAN protocol in detail.

IT-602-CBGS   Contd...

6. a) Comment on physical and MAC layer of Bluetooth technology.

   b) Write about architecture and applications of wireless sensor Networks.

7. a) Differentiate Indirect TCP, snooping TCP and Mobile TCP.

   b) Write and explain firewall design principles.

8. Write short notes on any two of the followings.
   a) Trojan Horse defense
   b) Mobile IP
   c) MANETs

******

IT-602-CBGS   PTO