

Roll No

IT-7003 (CBGS)

B.E. VII Semester

Examination, November 2019

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. Attempt all the parts. 2×7=14
 - a) Describe the Antenna, Antenna types and its radiation pattern.
 - b) Defined the role of multiple access technique in wireless network. Also explain SDMA, DAMA, PRMA.
2. Attempt all the parts. 2×7=14
 - a) With the help of diagram, explain system architecture of GSM? Also show the interfacing between different subsystems along with components of each subsystem.
 - b) Describe the process of call handover when a mobile station move?
3. Attempt all the parts. 2×7=14
 - a) Explain the IEEE 802.11 protocol architecture with a neat diagram.
 - b) Discuss the features of bluetooth enabled devices and their security features.

4. Attempt all the parts. 2×7=14
 - a) Differentiate between Traditional TCP and Mobile TCP. Also explain the working of Indirect TCP.
 - b) Illustrate the TCP connection timeout freezing of transmission protocol.
5. Attempt all the parts. 2×7=14
 - a) What are the components of a virus? Discuss the four phases in the life time of a virus.
 - b) Explain the design principle of firewall and its types.
6. Attempt all the parts. 2×7=14
 - a) Illustrate the problem of near and far terminals in medium access control. <http://www.rgpvonline.com>
 - b) Explain the protocol architecture of Hiperlan and also mark the advantage and disadvantage of Hiperlan.
7. Attempt all the parts. 2×7=14
 - 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. Attempt all the parts. 2×7=14
 - a) Draw and explain GPRS architecture.
 - b) How authentication is possible in wireless LAN. List and discuss the possible attacks on such network.