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.

 $2 \times 7 = 14$

- a) Describe the Amenna, 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.

 $2 \times 7 = 14$

- 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?

Attempt all the parts.

 $2 \times 7 = 14$

- Explain the IEEE 802.11 protocol architecture with a neat diagram.
- Discuss the features of bluetooth enabled devices and their security features.

4. Attempt all the parts.

 $2 \times 7 = 14$

- a) Differentiate between Traditional TCP and Mobile TCP.
 Also explain the working of Indirect TCP.
- Illustrate the TCP connection timeout freezing of transmission protocol.

5. Attempt all the parts.

 $2 \times 7 = 14$

- 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.

 $2 \times 7 = 14$

- a) Illustrate the problem of near and far terminals in medium access control.
- Explain the protocol architecture of Hiperlan and also mark the advantage and disadvantage of Hiperlan.

7. Attempt all the parts.

 $2 \times 7 = 14$

- 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.

 $2 \times 7 = 14$

- a) Draw and explain GPRS architecture.
- How authentication is possible in wireless LAN. List and discuss the possible attacks on such network.

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PTO
