

## cs 6 sem mobile communication and computing dec 2015

**(3 Hours)****Q.P. Code : 6393**

NB :

**[Total Marks : 80]**

1. Q1 is compulsory.
2. Attempt any 3 questions out of the rest.

Q1)

- a) Draw and Explain Electromagnetic Spectrum for communication. (5)
- b) Explain agent Advertisement in Mobile IP (5)
- c) Explain the difference between Adhoc Network and infrastructure based wireless networks (5)
- d) Explain the  $U_m$  interface of GSM (5)

Q 2)

- a) Explain how a Bluetooth network is established using baseband state transitions. (10)
- b). Explain Mobile Call termination in GSM, detailing the need and the use of  
MSRN , IMSI, TMSI no.s (10)

Q 3)

- a) Compare various IEEE 802.11x standards. (a/b/g/i/n etc) (10)
- b) Explain the functioning of Mobile -TCP (10)

Q 4)

- a) Why does the Mobile IP packet required to be forwarded through a tunnel.  
Explain Generic techniques of encapsulation of Mobile IP packet (10)
- b) Explain differences in GSM, GPRS and UMTS. (10)

Q 5)

- a) Explain UMTS architecture. Explain UTRA –FDD and TDD modes (10)
- b) Explain Security issues in wireless communication, typically for cellular networks (10)

Q 6) Short Notes on any 4

(20)

- a) Satellite Communication
- b) Android framework
- c) HIPERLAN 1 Vs HIPERLAN2
- d) PSTN
- e) Cellular IP