

Register Number: .....

**M.E. DEGREE EXAMINATIONS: JUNE 2013**

Second Semester

**COMPUTER SCIENCE AND ENGINEERING**

CSE553: Mobile Computing

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 2 = 20 Marks)**

1. What is localization with reference to satellite systems?
2. Give the disadvantages of space division multiple access.
3. List out any four features of Bluetooth.
4. Differentiate between the features of infrastructure and ad hoc networks.
5. What is DHCP? Give its use.
6. What are the goals of mobile IP?
7. Give the functions of mobile transport layer.
8. What is meant by snooping TCP?
9. List the requirements of wireless application environment.
10. What is the significance of wireless application protocol?

**PART B (5 x 16 = 80 Marks)**

11. a) Explain about the architecture and handover operation of GSM systems.

**(OR)**

- b) Write about the features of Digital video broadcasting.

12. a) Explain about the different ways of accessing the MAC layer of IEEE 802.11.

**(OR)**

- b) What is HIPERLAN? Describe its function in detail.

13. a) i) With reference to mobile IP, explain about Agent advertisement and discovery. (8)

ii) What is tunneling and encapsulation in mobile IP? Explain. (8)

**(OR)**

b) Give an overview about the working of Ad hoc networks.

14. a) i) Explain about “Transmission / time-out freezing” that occurs in mobile transport layer (8)

ii) How does “Transaction oriented TCP” work in the mobile transport layer? Explain. (8)

**(OR)**

b) Describe the working of mobile TCP in detail.

15. a) Explain about WAP architecture with relevant sketches.

**(OR)**

b) Describe the functions of Wireless telephony application with an example.

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