**Code No: D6506** **R09**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012**
**MOBILE COMPUTING TECHNOLOGIES**
**(WIRELESS AND MOBILE COMMUNICATIONS)**

**Time: 3hours** **Max. Marks: 60**

**Answer any five questions**
**All questions carry equal marks**

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1. a) Explain about the security in Mobile computing.
   b) What are the various applications of mobile computing?

2. Explain how does mobile IP works. What are the challenges with mobile IP with respect to high speed mobility? How does cellular IP solve some of these challenges?

3. a) Explain the standards of IEEE 802.11
   b) Describe the architecture of SS#7 signaling.

4. Describe the symbian OS architecture.

5. a) Explain about the session initiation protocol.
   b) What are the applications of Voice Over IP?

6. a) Explain about the Network operations of GPRS.
   b) What are the applications of Third generation networks?
   c) Explain about the digital control.

7. a) Describe the architecture of windows CE.
   b) Explain about the H.323 framework for Voice over IP.

8. a) Differentiate between H.323 and SIP.
   b) List and briefly explain the security protocols that are used in mobile computing.

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