Code No: **R41054**   **R10**   **Set No. 1**

IV B.Tech I Semester Supplementary Examinations, March/April-2016
MOBILE COMPUTING
(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours   **Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
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1 a) Distinguish between guided media and un-guided media. [8]
  b) What do you mean by phase shift keying (PSK)? Explain about various PSK methods. [7]

2 a) How can we enhance the capacity of a network and explain about the related techniques. [7]
  b) What is the difference between a smart phone and a smart system? Explain about any three smart systems that you known. [8]

3 a) What is the difference between MTC & MOC and explain about their implementation with neat sketch. [8]
  b) Explain about the implementation of localization and calling. [7]

4 a) What do you mean by collision and how to handle it by using CSMA/CD and CSMA/CA. [8]
  b) Explain about implementation of MAC in Hidden & Exposed terminals, Near & Far terminals. [7]

5 a) What are the basic reasons for evolving a new mobile IP instead of existing IP and what are the basic requirements of a mobile IP. [7]
  b) Explain about the working of mobile IP with a neat sketch. [8]

6 a) Whenever the conflict arises in synchronization and explains about the various conflict resolution strategies. [7]
  b) What is a mobile agent and aglet? List out the characteristics and the advantages of mobile agents. [8]

7 a) How a fixed infrastructure network differs from the mobile ad-hoc network – explain with a neat sketch. [8]
  b) What is a wireless sensor network and explain the internal architecture of a smart wireless sensor. [7]

8 a) What is the use of WAP 1.1 gateway and explain the WAP 1.1 architecture with a neat sketch. [8]
  b) What is a WLAN? List out the advantages and disadvantages of WLAN's. [7]