

Code : R7410506

R07**IV B.Tech I Semester (R07) Supplementary Examinations, May 2012****MOBILE COMPUTING**

(Computer Science & Engineering, Information Technology
and Electronics & Computer Engineering)

Time: 3 hours

Max Marks: 80

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

1. (a) What is meant by mobile computing?
(b) With neat diagram explain about GSM architecture and indicate various components.
2. (a) Define hidden and exposed terminal problems. Give an example.
(b) Explain how CDMA offers medium access control compare and contrast with FDMA and TDMA.
3. (a) Explain how mobile IP delivers the IP packet.
(b) Describe how DHCP (Dynamic Host Configuration Protocol) works.
4. (a) List the differences between indirect TCP and mobile TCP.
(b) Explain why TCP performs poorly in mobile environment.
5. Compare and contrast any two cache invalidation mechanisms for mobile environment.
6. (a) Write about the term – communications asymmetry.
(b) Explain about push – based data dissemination methods.
7. (a) Mention the properties of a MANET.
(b) Describe how security is provided in MANETS.
8. Answer any two of the following:
 - (a) WAP protocol architecture.
 - (b) Bluetooth physical layer.
 - (c) J2ME.
