

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 2873

Roll No.

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**B. Tech.**

(SEM. VIII) THEORY EXAMINATION 2011-12

**MOBILE COMPUTING**

Time : 3 Hours

Total Marks : 100

Note : Attempt all questions.

1. Attempt any *two* parts of the following : **(10×2=20)**
  - (a) What do you understand by mobile computing ? Discuss issues and challenges facing mobile computing today.
  - (b) Discuss the architecture of GSM. Also explain the security issues to implement GSM.
  - (c) Discuss the following in brief :
    - (i) Code division multiple access (CDMA)
    - (ii) GPRS.
2. Attempt any *two* parts of the following : **(10×2=20)**
  - (a) Discuss the advantages and limitations of Bluetooth.
  - (b) What is mobile IP ? Discuss the goals of mobile IP. Also discuss the features of IPv4.
  - (c) Discuss the following :
    - (i) IEEE 802.11
    - (ii) WAP applications.
3. Attempt any *two* parts of the following : **(10×2=20)**
  - (a) Discuss the different data management issues with respect to mobile computing environments.

- (b) What was the motivation for designing the CODA system ?  
Discuss CODA file system in detail.
  - (c) What do you understand by clustering ? How clustering  
is used for mobile wireless networks ? Discuss.
4. Attempt any *two* parts of the following : **(10×2=20)**
- (a) Why security concerns in traditional systems are simple  
than those in mobile systems ? Discuss.
  - (b) Discuss the requirements for the design of mobile agent  
systems.
  - (c) Discuss various issues which are related to transaction  
processing in mobile computing.
5. Write short notes on any *two* : **(10×2=20)**
- (a) Destination sequenced distance vector routing (DSDV)
  - (b) Temporary ordered routing algorithm (TORA)
  - (c) Issues and Challenges in Ad hoc Networks.