

Code No: 57053

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech IV Year I Semester Examinations, February/March - 2016****MOBILE COMPUTING****(Computer Science and Engineering)****Time: 3 Hours****Max. Marks: 75****Answer any Five Questions****All Questions Carry Equal Marks**

- 1.a) List and explain the applications of mobile computing.
b) With a neat diagram explain the functional architecture of GSM. [8+7]
- 2.a) Compare the advantages and disadvantages of CDMA with TDMA/FDMA.
b) How does the near/far effect influence TDMA systems? What happens in CDMA systems? [8+7]
- 3.a) Explain the working mechanism of Mobile IP. Give an example for illustration.
b) Briefly discuss about packet delivery in Mobile IP network layer. [8+7]
- 4.a) Mention any four advantages of indirect TCP in wireless protocols.
b) Explain Mobile TCP. Give its advantages and disadvantages. [8+7]
5. Describe in detail about data recovery process and QoS issues. [15]
- 6.a) Explain the classification of data delivery mechanisms in detail.
b) Explain about the selective tuning mechanism. [8+7]
- 7.a) List and explain the applications in MANETS.
b) With an example explain how routing is performed using DSDV algorithm in detail. [8+7]
- 8.a) Explain the functioning of piconets and scatternets in Bluetooth technology.
b) With a neat diagram explain the protocol architecture of wireless application protocol. [8+7]

--ooOoo--