

Total No. of Questions : 6]

SEAT No. :

P121

[Total No. of Pages : 2

APR - 18/BE/Insem. - 90

B.E. (Computer Engineering)

MOBILE COMPUTING

(2012 Course) (Semester - II) (Elective - III) (410451A)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data, if necessary.*

UNIT - I

- Q1)** a) Compare Wired and Wireless Networks based on advantages, disadvantages and components used. [6]
- b) What are different technical challenges and limitations of wireless communication? [4]

OR

- Q2)** a) Describe wireless communication system with its types and examples. [6]
- b) What is the need of spread spectrum technology? [4]

UNIT - II

- Q3)** a) Explain in detail the Mobile Computing Architecture. [6]
- b) Compare handheld device OS with traditional OS. [4]

OR

- Q4)** a) Explain how mobility management is important in Mobile Networks. [5]
- b) What is Smart System? Explain with one example. [5]

P.T.O.

UNIT - III

- Q5)** a) Describe following terms in the context of security management in GSM system. [6]
- i) Challenge.
 - ii) Response.
 - iii) Authentication.
- b) What is handover? How it is important in Mobile Networks. [4]

OR

- Q6)** a) Compare CDMA, WCDMA and CDMA 2000. [6]
- b) Describe the sequential steps for encryption process in GSM. [4]

