

Total No. of Questions : 6]

SEAT No. :

P157

[Total No. of Pages : 2

APR. - 16/BE/Insem. - 81

B.E. (Computer Engineering)

MOBILE COMPUTING (410451 A)

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

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 indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) Explain Source Encoding, Channel Encoding and Modulation with one Example. **[6]**

b) Explain the generations of Cellular network (1G, 2G, 2.5G, 3G, 4G) with respective standards. **[4]**

OR

Q2) a) What are the advantages of Wireless Networks? Classify different wireless networks based on their range. **[4]**

b) As the signal travels the distance its power becomes weaker- Justify, also explain various wireless communication problems. **[6]**

Q3) a) Explain Mobile Computing Architectural layers in details. **[6]**

b) Explain Location registration and hand off process with proper diagram. **[4]**

OR

Q4) a) Explain any three mobile device OS with any four features. **[6]**

b) Explain need of frequency reusability in cellular network. **[4]**

P.T.O.

- Q5)** a) Explain GSM Network Architecture in detail. [5]
b) Explain GSM Protocol stack. [5]

OR

- Q6)** a) Explain LTE features and Architecture. [6]
b) What are traffic, paging, pilot and synchronization channels in cdmaOne forward link. [4]

