

Total No. of Questions : 6]

SEAT No. :

P972

[Total No. of Pages : 1

**APR -17/BE/Insem. - 82**  
**B.E. Computer Engineering**  
**MOBILE COMPUTING**  
**(2012 Pattern)**

*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) Explain source Encoding, Channel Encoding and Modulation with one Example. [6]  
b) Explain what do you mean by wireless propagation methods. [4]

OR

- Q2)** a) Explain Wireless Communication System with Block Diagram. [6]  
b) Explain the generations of Cellular networks 1G, 2G, 2.5G, 3G, 4G with respective to standards. [4]

**Unit - II**

- Q3)** a) Explain what is hand held pocket computer? [5]  
b) Describe mobility management with suitable diagram. [5]

OR

- Q4)** a) How the given set of frequencies are used to increase capacity of a cellular Network. [6]  
b) Explain any two mobile device OS with any four features. [4]

**Unit - III**

- Q5)** a) Explain in detail the GSM protocol stack. [6]  
b) Explain various traffic and control data channels used in GSM network. [4]

OR

- Q6)** a) Explain different types of security services provided by GSM? [6]  
b) Why CSMA/CD is not used in Wireless Networks? [4]

