

Total No. of Questions : 4]

SEAT No. :

**P8508**

Oct-22/BE/Insem - 106

[Total No. of Pages : 1

**B.E. (Information Technology)**

**MOBILE COMPUTING**

**(2019 Pattern ) (Semester - VII) (Elective - III) (414444A)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer the Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume Suitable data if necessary.*

- Q1)** a) What is mobile computing? Explain various functions of mobile computing. [5]
- b) Compare the merits and demerits of TDMA and FDMA multiple access schemes. [5]
- c) Write short note on : Telecommunication generations. [5]

OR

- Q2)** a) Explain with diagram far and near terminal problem. [5]
- b) Explain carrier sense Multiple access with collision avoidance (CSMA/CA). [5]
- What is the Reason for implementing CSMA with CA strategy in wireless networks?
- c) Explain in detail Packet Reservation Multiple Access (PRMA). [5]

- Q3)** a) Enlist the characteristics of SIM. [5]
- b) With the help of a neat sketch, describe GSM Network architecture. [5]
- c) Explain in detail the frequency allocation in GSM. [5]

OR

- Q4)** a) Write short notes on : UMTS. [5]
- b) What you meant by security in GSM? Explain about that in detail? [5]
- c) With the help of a neat sketch, describe GPRS architecture. [5]

