Oct-22/BE/Insem - 106
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]**

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