SEAT No. :

PC236

[6361]-102

B.E. (Information Technology) (Insem)
MOBILE COMPUTING
(2019 Pattern) (Semester - VII) (Elective - III) (414444A)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates:
  1)   *Answer Q1 or Q2, Q3 or Q4.*
  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)   Write a short note of CSMA/CD and CSMA/CA. **[5]**

     c)   Which are different method to access the channel based on their time. Explain in Details. **[5]**

<div align="center">OR</div>

Q2) a)   Write a short note on pure ALOHA. **[5]**

     b)   Explain Frequency Division Multiple Access (FDMA) in wireless communication with figure. **[5]**

     c)   Explain ISMA and importance of ISMA. **[5]**

Q3) a)   Explain GSM architecture in detail. **[5]**

     b)   What is the relationship between the Base Station and Mobile Switching Centre? Discuss the role of EIR entity of GSM network. **[5]**

     c)   Write short notes on : UMTS. **[5]**

<div align="center">OR</div>

Q4) a)   Explain the network and switching Sub-System of GSM architecture. **[5]**

     b)   Write short notes on : Authentication and privacy in GSM. **[5]**

     c)   With the help of a neat sketch, describe GPRS architecture. **[5]**

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