

Total No. of Questions : 4]

SEAT No. :

P5248

[6188]-203

[Total No. of Pages : 1

B.E. (Information Technology) (Insem)

MOBILE COMPUTING

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

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

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

- Q1)** a) List the applications of Mobile Computing. Explain in detail. [5]
b) Compare and contrast SDMA, TDMA, FDMA and CDMA schemes. [5]
c) Write a short note on Packet Reservation Multiple Access. [5]

OR

- Q2)** a) Describe the operations of the following technologies: [8]
i) Classical ALOHA.
ii) Slotted ALOHA.
b) Explain the following terms. [7]
i) Hidden terminal and Exposed terminal problem.
ii) Far and Near terminal problem.

- Q3)** a) Give the protocol architecture for signaling in GSM. [7]
b) Explain System architecture of GSM in detail. [8]

OR

- Q4)** a) Describe the GPRS architecture in detail. Explain advantages of GPRS. [7]
b) Define UMTS. What are the elements of UMTS? [8]

✍ ✍ ✍