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SEAT No. :

PD-289

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[6411]-65

B.E. (E&TC) (Insem.)

MOBILE COMPUTING

(2019 Pattern) (Semester - VIII) (404191(E)) (Elective - V)

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 side indicate full marks.
- 4) Use of calculator is allowed.
- 5) Assume suitable data if necessary.

- Q1)** a) What is mobile computing? Also, state and explain various parts of mobile computing systems. [5]
- b) Explain the working principle of FDMA. What are the advantages & disadvantages of FDMA. [5]
- c) What is MAC? Why is it needed? Explain any MAC protocol in detail. [5]

OR

- Q2)** a) Explain in detail the Direct Sequence Spread Spectrum. [5]
- b) Short note on Multiplexing. [5]
- c) Explain in detail the CDMA. [5]

- Q3)** a) Explain GSM system architecture for different subsystems. [5]
- b) Explain 5G Network architecture. [5]
- c) Compare UMTS and GSM. [5]

OR

- Q4)** a) Explain the GSM protocol stack and also explain GSM signaling. [5]
- b) Explain Handover in GSM. [5]
- c) Short note on recent trends in Telecommunication Industries. [5]

