Total No. of Questions : 6]

SEAT No. :

PA-10201

[Total No. of Pages : 1

[6019]-74
B.E. (E & TC) (In Sem.)
MOBILE COMPUTING
(2019 Pattern) (Semester - VIII) (404191(E)) (Elective - V)

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

Instructions to the candidates :

1) ***Q.1 and Q.2 are compulsory. Solve Q.3 or Q.4 and Q.5 or Q.6.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Assume suitable data, if necessary.***

Q1) Compare TDMA, FDMA and CDMA. List applications of each. **[7]**

Q2) Draw and explain GPRS architecture. **[7]**

Q3) Consider a slow FHSS system with m-ary FSK with number of bits per symbol = 2, two symbol per hop & PN sequence generated output with binary message of 101011011110. The message is transmitted using following PN sequence with K = 3 {001 110 101 000 101}. Plot output of the system. **[8]**

OR

Q4) Explain connection establishment steps of mobile terminated call (MTC) and mobile originated call (MOC) in GSM. **[8]**

Q5) Classify MAC protocols and explain any two in detail. **[8]**

OR

Q6) What is handover in cellular network and when does handover occur? Explain handover mechanism in detail. **[8]**

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