

Total No. of Questions : 10]

SEAT No. :

P3080

[5059]-676

[Total No. of Pages : 2

B.E.(Information Technology)

MOBILE COMPUTING

(2012 Course)(Elective-III)(End Sem.)(Semester-II) (414463A)

Time :2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.
- 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) Explain the 1st, 2nd, and 3rd generation of network. [4]

b) Explain difference between Soft handoff and Hard Handoff [5]

OR

Q2) a) w.r.t. mobile computing Explain various aspects of mobility [4]

b) Draw and explain Mobile computing architecture. [5]

Q3) a) Which are different types of databases available in GSM architecture? Explain their functionality. [5]

b) Explain with diagram Mobile-Originated Messaging and Mobile-Terminated Messaging. [5]

OR

Q4) a) Explain the following terms with their significance: MSISDN, IMSI, MSRN, TMSI [5]

b) Explain the functionality Authentication Centre and Equipment Identity Register and Subscriber Identity module in GSM Architecture. [5]

Q5) a) How GSM architecture is modified to support GPRS? Explain in detail. What are the benefits of GPRS. [9]

b) Write short note on CDMA 2000. [8]

OR

Q6) a) Explain WAP Architecture with diagram. [9]

b) Write short note on WCDMA. [8]

P.T.O.

- Q7)** a) Explain the significance of application to application messaging architecture along with its limitations [9]
b) Draw and explain any 3 phases of mobile application development. [8]

OR

- Q8)** a) Explain in details smart client Development Process [9]
b) Explain smart Client architecture [8]
- Q9)** a) Describe Android OS architecture specific to role of Application framework and Dalvik VM [9]
b) Describe Testing methodologies for Mobile Applications [8]

OR

- Q10)** a) Explain all features of Android OS in details [9]
b) Explain 4G and 5G future mobile Generations. [8]

