Total No. of Questions : 10]

SEAT No. :

P2363

[Total No. of Pages : 2

[5254] - 696
B.E. (I.T.) (Semester - II)
MOBILE COMPUTING (Elective - III)
(2012 Pattern)

Time :2:30 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) *Figures to the right indicate full marks.*

Q1) a) Describe various generation of network. **[4]**

b) Explain PCS Architecture with diagram. **[5]**

OR

Q2) a) If the user enters from Network A to Network B, how location is updated in GSM Architecture? Explain with diagram. **[4]**

b) Draw and explain mobile computing architecture. **[5]**

Q3) a) Explain in detail Network switching subsystem available in GSM architecture. Explain their functionality. **[5]**

b) Explain the VLR overflow control and alorithm OI - Registration. **[5]**

OR

Q4) a) Explain any 4 address identifiers in GSM architecture. **[5]**

b) Explain SMS architecture with diagram. **[5]**

Q5) a) Draw GPRS Architecture with interfaces and Explain. **[9]**

b) Draw diagram of WAP protocol stack in detail and Explain wireless Transport layer security. **[8]**

OR

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

b) Write short note on WCDMA. **[8]**

P.T.O.

Q7) a) Which are the key criteria used for determining mobile application architecture? **[9]**

b) Draw phases of mobile application development and explain any 3. **[8]**

OR

Q8) a) List down the various phases required for Client Development Process and explain in detail. **[9]**

b) Explain wireless Internet architecture and give advantages of same. **[8]**

Q9) a) Describe android OS architecture specific to role of Application framework and dalvik VM. **[9]**

b) Elaborate the challenges in Usability testing of mobile Applications. **[8]**

OR

Q10)a) What is the meaning of performance, Scalability, modifiability and availability. Explain w.r.t. mobile applications. **[9]**

b) Explain user interface design principles for mobile applications. **[8]**