P1883

[4859]-1078

B.E. (Computer Engineering)
PERVASIVE COMPUTING
(2012 Pattern) (Elective - II) (Semester - I) (410445 B)

Time :2½ Hours.]   *[Max. Marks :70*

Instructions to the candidates:
1) *Neat diagrams must be drawn wherever necessary.*
2) *Figures to the right indicate full marks.*
3) *Assume suitable data, if necessary.*

Q1) a) Explain any two location management techniques in mobile computing.**[6]**

     b) Discuss following technologies related to Pervasive Computing: **[4]**

         i) Memory

         ii) Processors

OR

Q2) a) Explain the concept of caching in mobility.   **[6]**

     b) Explain Smart Buildings and Home automation.   **[4]**

Q3) a) Explain the concept of Mobile IP.   **[6]**

     b) Explain the concept of Hidden UI.   **[4]**

OR

Q4) a) Explain Human centered Design Life cycle.   **[6]**

     b) Explain perfecting in mobility management.   **[4]**

Q5) a) Explain Context aware computing and various types of contexts with example. **[10]**

     b) Explain Different services that should be provided by middleware in pervasive applications. **[8]**

OR

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Q6) a) What is Mobile Middleware? Explain Adaption in Mobile Middleware.**[10]**

b) Explain the concept of 'Agent' related to mobile middleware and services offered by Agent. **[8]**

Q7) a) Explain the traditional security issues in pervasive applications. **[10]**

b) Explain Detectability and Resource depletion in Wireless Network. **[6]**

OR

Q8) a) Explain various security issues in Ad Hoc Networks. **[10]**

b) Explain "Man in the middle" attack in detail. **[6]**

Q9) a) Explain Social Networking and Media Exchange Example for smart interactions. **[10]**

b) Explain various issues related to distributed systems interaction to be more intelligent. **[6]**

OR

Q10) Write notes on: **[16]**

a) Wearable computer

b) Cyber Physical Systems

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