

Total No. of Questions :10]

SEAT No. :

P1883

[4859]-1078

[Total No. of Pages :2

**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

P.T.O.

- 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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