

Total No. of Questions : 10]

SEAT No. :

P3559

[Total No. of Pages : 2

[4959] - 1159

B.E. (Computer Engineering)

Pervasive Computing

(2012 Pattern) (Elective - II (b))

Time : 2 1/2 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8., Q.9 or Q.10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) What is Mobile computing? And Pervasive computing. **[6]**

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

i) Processors.

ii) Displays.

OR

Q2) a) Explain UbiCom systems model and smart DEI. **[6]**

b) Discuss data synchronization principles in Mobile network. **[4]**

Q3) a) Explain WAP for pervasive computing. **[6]**

b) Comment on Natural language interfaces. **[4]**

OR

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

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

P.T.O.

- Q5)** a) What is context aware computing? Explain different building blocks present in context aware middleware. [10]
b) Explain different services that should be provided by middleware in pervasive applications. [8]

OR

- Q6)** a) What is Adaptive Middleware? Explain application aware adaption in detail. [10]
b) Explain advantages and disadvantages of mobile agents. [8]

- Q7)** a) Explain the traditional security issues in pervasive applications. [10]
b) Explain the Distributed Denial of Service attack in detail. [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 Human Intelligence Versus Machine Intelligence. [10]
b) List all and explain any one issues related to Smart Human-Device interactions. [6]

OR

- Q10)** Write Notes on: [16]
a) Wearable computer.
b) Cyber Physical Systems.

