P3228

[5461]-269

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

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 indicate full marks.*

    4)   *Assume suitable data, if necessary.*

Q1) a)   Explain Human-to-Human Interaction(HHI) applications.   **[6]**

     b)   Explain location management principles and techniques in mobile computing.   **[4]**

<div align="center">OR</div>

Q2) a)   What are the core properties of Ubicom systems? Draw a Ubicom System model.   **[6]**

     b)   Explain dynamic adaptation in IBM's transcoding application.   **[4]**

Q3) a)   How the brain computer interface is facilitated? Explain with example.**[6]**

     b)   Explain mobile middle ware with example.   **[4]**

<div align="center">OR</div>

Q4) a)   Explain application aware adaptation architecture.   **[6]**

     b)   Discuss any one application of hidden UI in wearable computing.   **[4]**

Q5) a)   Explain mobile and wireless security issues.   **[10]**

     b)   Write short notes on   **[8]**

         i)   Embodied Reality

         ii)   Virtual Reality

<div align="center">OR</div>

Q6) a)   Explain experimental comparison of collaborative defense strategies for network security.   **[10]**

     b)   Write a short note on GSM security.   **[8]**

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Q7) a) Explain smart Human-Device Interaction in detail. **[10]**

b) Differentiate between security and privacy in Ubicom. **[6]**

OR

Q8) a) Write notes on : **[10]**

i) Eco friendly Ubicom Devieces.

ii) Increased virtual social interaction versus local social interaction.

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

Q9) a) Explain device interaction in smart devices with suitable examples. **[8]**

b) What are the different challenges in Ubicom? How they can be overcome. **[8]**

OR

Q10) a) Differentiate between machine intelligence and human intelligence. **[8]**

b) Write a short note on : **[8]**

i) Smart boards, Pads, Tabs

ii) Smart meeting Rooms

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