P5187

B.E./Insem.-589
B.E. (Computer Engineering)
PERVASIVE COMPUTING
(2012 Pattern) (Elective -II)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates:

  1)   *Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
  2)   *Assume suitable data if wherever necessary.*
  3)   *Figures to the right side indicate full marks.*

Q1) a)   Discuss holistic framework for ubicom.   **[6]**

   b)   Write short note on calm computing.   **[4]**

OR

Q2) a)   What do you understand by context? Discuss context-awareness.   **[6]**

   b)   What is Embodied reality? Differentiate with virtual, augmented &
       mediated reality.   **[4]**

Q3) a)   What is CCI? Discuss smart boards, pads, and tabs as CCI devices.**[4]**

   b)   Discuss Mann's three criteria for wearable computers. Whether laptops,
       mobile phones & wrist-watch information devices fulfill these criteria?**[6]**

OR

Q4) a)   What is ambient intelligence? Discuss.   **[4]**

   b)   Consider how the cooltown model could be deployed beneficially at
       work and home.   **[6]**

Q5) a)   Why it is important to study HCl for ubiquitous computing.   **[4]**

   b)   Discuss the limitations in input and output capabilities of handheld mobile
       communication devices.   **[6]**

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Q6) a) Discuss the use of explicit human interaction for the human activities like -

[6]

    i) Preparing a meal

    ii) Washing clothes

  b) Discuss Human-Centered Design. **[4]**

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