[5927]-345

B.E. (Computer Engg.)
PERVASIVE COMPUTING
(2019 Pattern) (Elective-III) (Semester-VII) (410244(A))

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *Answer Q1 or Q2, Q3. orQ4, Q5 or Q6, and Q7 or Q8.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*

Q1) a)   Explain context aware computing and types of contexts with examples.**[9]**

b)   Describe how to determine the location in mobile networks.   **[8]**

OR

Q2) a)   Describe the different challenges in context awareness.   **[9]**

b)   Explain the architecture of a context aware system.   **[8]**

Q3) a)   Explain reactive type intelligent system model in detail.   **[9]**

b)   Explain hybrid intelligent system based upon horizontal and vertical layering.   **[9]**

OR

Q4) a)   Explain different intelligent system operations.   **[9]**

b)   Describe the use of an agent interaction protocol suite in the interaction of multiple ISs designed as MAS.   **[9]**

Q5) a)   Describe Wearable Computing Architecture.   **[9]**

b)   Define HCI. Explain explicit and implicit HCI   **[8]**

OR

Q6) a) What is HCI? What is the importance of HCI? What are different advantages and disadvantages of HCI? **[9]**

b) What is the difference between interaction design and UX design? **[8]**

Q7) a) Explain different open issues in pervasive computing. **[9]**

b) What are the security challenges in pervasive computing? **[9]**

OR

Q8) a) Explain secure resource discovery in detail. **[9]**

b) What are the solutions for pervasive computing challenges? **[9]**

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