P3197

[5670]-299

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

Time : 2½ Hours] *[Max. Marks :70*

Instructions to the candidates:

1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7or 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) What is context awareness? Discuss context awareness of physical, user, virtual environments. **[5]**

b) Explain Human Computer Interaction (HCI) with suitable example.**[5]**

OR

Q2) a) Explain wearable computer interaction. **[5]**

b) Explain Human centered design life cycle with appropriate diagram. **[5]**

Q3) a) Explain Service discovery and mobile agents. **[6]**

b) Explain mobile middleware with example. **[4]**

OR

Q4) a) What is Augmented reality? Explain with example. **[4]**

b) Explain any two applications of hidden UI in wearable computing. **[6]**

Q5) a) Explain WAP for Pervasive Computing. **[8]**

b) Explain mobile and wireless security issues. **[8]**

OR

Q6) a) List and explain any two issues related to Smart Human-Device Interactions. **[8]**

b) Explain Detectability and Resource depletion in wireless Network.**[8]**

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Q7) a) Explain the various problems with GSM security. **[10]**

b) Explain Human intelligence versus machine intelligence. **[8]**

OR

Q8) a) Explain in detail spectrum of adaptation and three measures useful for classifying good adaptation strategy. **[10]**

b) Explain centralized and decentralized collaboration techniques. **[8]**

Q9) a) What is smart interaction? Explain Social Networking and Media Exchange with suitable examples. **[10]**

b) Explain various issues related to distributed systems interaction. **[6]**

OR

*Q10)*a) Explain various security issues in Ad Hoc Networks. **[10]**

b) Write a short note on Smart Devices. **[6]**

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