SEAT No. :

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## Oct.-16/B.E./Insem.-179
### B.E. (Comp. Engg.)
## PERVASIVE COMPUTING
### (2012 Pattern) (Elective - II(b))

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

*Instructions to the candidates:*

1) *Answer Q1 or Q2, Q3 or Q4,Q5 or Q6.*

2) *Figures to the right side indicate full marks.*

**Q1)** Define and explain the following Terms : [10]

a) Ambient intelligence

b) Calm computer

c) Context awareness

d) Wearable computing

e) Pervasive computing

### OR

**Q2)** a) Discuss holistic framework for Ubicom. [6]

b) What is Embodied Reality? Differentiate with virtual, Augmented & Mediated Reality. [4]

**Q3)** a) What is HCI? Explain with suitable example. [6]

b) Write a short note on Palm Operating System. [4]

### OR

**Q4)** a) What is mobile middleware? Explain. [4]

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

**Q5)** How to use eHCI in some common types of devices and i HCI in mobile and static devices that are not permanently attached to Humans. [10]

### OR

**Q6)** a) Discuss the use of explicit HCI for the human activities like : [6]

i) Preparing a meal

ii) Washing cloths

b) Discuss Human Centered Design. [4]