

Total No. of Questions :6]

SEAT No. :

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**P4983**

**B.E/In Sem. - 81**  
**B.E.(Computer Engg.)**  
**PERVASIVE COMPUTING**  
**(2012 Course) (Elective - II) (Semester -I) (410445B)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Assume suitable data, if necessary.*

**Q1)** Describe the five core/key properties of Pervasive / Ubiquitous Computing with one Example each. **[10]**

OR

**Q2)** Highlight the Characteristics of Distributed Systems with illustrations of each. **[10]**

**Q3) a)** Mention the Pervasive Applications / Ubiquitous Networks of Devices related to CCI. **[3]**

b) Mention the Pervasive / Ubiquitous Computing Applications Human-Physical World Interaction (HPI ) and (CPI) **[4]**

c) Mention the Pervasive / Ubiquitous Computing Applications Human-Human Interaction. **[3]**

OR

**Q4) a)** Brief the key properties of Ambience intelligence along with its applications. **[6]**

b) Discuss Smart Devices in regard to CCI. **[4]**

**P.T.O.**

- Q5)** a) What is Human computer Interaction or Interfaces (HCI) and why we need good HCI for human interactive systems? [5]
- b) What is a sub-type of HCI, implicit HCI (iHCI), how is it differentiated from conventional explicit HCI (eHCI) and why do we need this to enhance pervasive computing? [5]

OR

- Q6)** a) How to use eHCI in some common types of device? [5]
- b) How to use iHCI in (mobile and static) devices that are not permanently attached to humans? [5]

*EEE*