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]

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]