Total No. of Questions : 10]

SEAT No. :

P4007

[Total No. of Pages : 2

[5561]-714

B.E. (Information Technology)

UBIQUITOUS COMPUTING

(2015 Pattern) (Semester - II) (414463)

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 side indicate full marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) What are the features of ubiquitous computing? **[5]**

b) Explain all core properties of pervasive computing? **[5]**

OR

Q2) a) List and explain three main types of environment context? **[5]**

b) Explain micro-actuation and sensing (MEMS) in detail? **[5]**

Q3) a) Explain smart devices under CPI and CCI? **[5]**

b) Explain types of transparency mobile services? **[5]**

OR

Q4) a) Explain proxy based service access and give its disadvantages? **[5]**

b) Explain three major types of robot? **[5]**

Q5) a) Explain human entered design lifecycle in detail with diagram? **[8]**

b) List out all handling limited key input and explain it in detail? **[8]**

OR

Q6) a) Write short note on : **[9]**

i) Multi-modal visual interface

ii) Gesture interface

iii) Tangible interface

b) Describe user models and its acquisition and representation? **[7]**

P.T.O.

Q7) a) Define an explain all ways of addressing privacy in ubiquitous system? **[8]**

b) Explain solov's taxonomy of privacy with diagram? **[8]**

OR

Q8) a) Describe all privacy difficulties and challenges of RFID tag? **[8]**

b) Describe all challenges to privacy for ubiquitous computing? **[8]**

Q9) a) Write short note on : **[12]**

i) Network protocol suits

ii) Routing and inter-networking

iii) PSTN voice network

iv) Configuration management

b) Describe wireless data network with its types? **[6]**

OR

Q10)a) Write short on : **[8]**

i) Personal area network

ii) Body area network

b) Explain multi-path routing in mobile ad hoc network(MANET) with neat diagram. **[6]**

c) Explain mesh network and overlay network with diagram. **[4]**

⌘⌘⌘