

Total No. of Questions : 10]

SEAT No. :

P213

[Total No. of Pages : 2

[5871]-738

**B.E. (Information Technology)
UBIQUITOUS COMPUTING
(2015 Pattern) (Semester - II)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or 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) Describe the UbiCom System Model and SMART DEI Model? [5]

b) List and explain three Main Types of Environment Context? [5]

OR

Q2) a) Explain the process of Ubiquitous system Environment Interaction? [5]

b) List and explain five core properties that characterize UbiCom System? [5]

Q3) a) Explain the concept of Virtual Machines? [5]

b) Explain RFID tags and Its Types? [5]

OR

Q4) a) What is MEMS? [5]

b) Explain the properties of Ubiquitous Computing? [5]

Q5) a) Classify all handling limited key input and explain it in detail? [8]

b) Write short note on : i) Organic Interface ii) Tangible Interface [8]

OR

Q6) a) What is Virtual reality and Augmented reality? [8]

b) Describe human entered design lifecycle in detail with diagram? [8]

P.T.O.

- Q7) a)** Describe privacy difficulties of RFID tags? **[8]**
b) Explain solov's taxonomy of privacy with diagram? **[8]**

OR

- Q8) a)** Explain possible ways of addressing privacy in ubiquitous computing? **[8]**
b) Explain Communication Confidentiality and Anti-Collision Protocol? **[8]**

- Q9) a)** Describe wireless data network with its types? **[8]**
b) Explain with example Personal Area Network and Body Area Network? **[10]**

OR

- Q10) a)** Explain Configuration and Security Management in UbiComp? **[8]**
b) Write short note on: **[10]**
i) Bluetooth
ii) ZigBee

