

Total No. of Questions : 10]

SEAT No. :

P3855

[5561]-283

[Total No. of Pages : 2

B.E. (Computer Engineering)

PERVASIVE COMPUTING

(2012 Pattern) (Elective-II) (Semester - I) (410445B)

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

Q1) a) Define and explain the following terms. **[5]**

- i) Ambient Intelligence
- ii) Calm Computer

b) What are the core properties of Ubiocom systems? Draw Ubiocom system model. **[5]**

OR

Q2) a) Explain wearable computer interaction. **[5]**

b) Explain location Management principles and techniques in mobile computing. **[5]**

Q3) a) Explain Context aware computing and types of contexts with example. **[6]**

b) Explain mobile middleware with example. **[4]**

OR

Q4) a) What is Virtual Reality? Explain with example. **[4]**

b) Explain application aware adaptation architecture. **[6]**

Q5) a) Explain mobile and wireless security issues **[8]**

b) Write short notes on

- i) Cyber Physical Systems
- ii) Traffic analysis

[8]

OR

P.T.O.

- Q6)** a) Explain experimental comparison of collaborative defense strategies for network security. [8]
b) Explain the various problems with GSM security. [8]

- Q7)** a) Explain smart Human-Device Interaction in detail. [10]
b) Explain Human intelligence versus machine intelligence. [8]

OR

- Q8)** a) Explain the following in detail:
i) Man in the middle Attack
ii) Replay attacks [10]
b) Explain traditional security issues in pervasive applications. [8]

- Q9)** a) Explain V-SAT Security models in UbiCom. [8]
b) Discuss blowfish algorithm in detail for authentication. [8]

OR

- Q10)** a) What is mobile agent? Explain its architecture. [8]
b) Write a short note on Kerberos authentication algorithm. [8]

