(Time: 3 hrs)   (Marks 80)

1. Question no 1 is compulsory, solve any 3 questions from remaining 5 questions.
2. Assume Suitable data whenever necessary.
3. Figures in the right indicate full marks.

Q 1) a) Explain various challenges in ubiquitous system.   (10)

   b) Discuss various properties of ubiquitous computing.   (10)

Q 2) a) Discuss the design and implementation problems of ubiquitous computing.   (10)

   b) Give the networking Characteristics of wireless sensor networks.   (10)

Q 3) a) Discuss what are the securities issues in ubiquitous network design in detail.   (10)

   b) Explain how to use wearable and implanted Device using Hidden User Interface.   (10)

Q 4) a) Discuss the requirements of computational infrastructures for ubiquitous computing
         in detail.   (10)

   b) What are the factors to be considered while implementing context-aware applications? (10)

Q 5) a)   Are there any social issues in Ubiquitous system. Explain in detil.   (10)

   b) Explain network designing in Ubiquitous system.   (10)

Q 6) Write short notes on **any four**.   (20)

   a) Virtual Machines

   b) Wireless Data Networks.

   c) HCD

   d) Mobile Robots

   e) Embedded system and RTS.

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