SIDDHARTH INSTITUTE OF ENGINEERING &TECHNOLOGY:: PUTTUR
ELECTRONICS & COMMUNICATON ENGINEERING
RADIO FREQUENCY IDENTIFICATION (16EC5510)
QUESTION BANK
UNIT I

1. Write a short notes on
   a) Antennas and radio of RFID   (b)   RFID Technology   **[6+6M]**
2. a) Explain the supply chain of EPC   **[6M]**
   b) Explain the effect of environment on RFID system   **[6M]**

3. a) Discuss about RFID readers   **[6M]**
   b) Explain about the computer network which is used to connect the readers of RFID.
                                                                                  [6M]
4. a) Explain about the implantation of RFID chips in peoples.   **[5M]**
   b) List out the elements of RIFD system and explain each briefly   **[7M]**
5. a) Give a brief note about the coupling, range and penetration of RFID system
                                                                                  [6M]
   b) Explain in detail about any two applications of RFID   **[6M]**
6. a) With the help of block diagram explain the various elements of an RFID system
                                                                                  [6M]
   b) Write shorts on verichip and mark of the beast in RFID technology
                                                                                  [6M]
7. a) In the view of RFID explain the antennas and radio characteristics. Describe the band,
   frequency, wavelength and classical usage.   **[7M]**
   b) In the view of connection between the reader and the tag, explain the penetration,
   coupling and range.   **[5M]**
8. Explain the applications of RFID in the following fields   **[6+6M]**
   (a) Supply Chain Visibility and Inventory Management   (b) Library systems
9. a) Discuss the applications of RFID in tracking methodology   **[6M]**
   b) What are the elements of an RFID system? Explain the role of each element.
                                                                                  [6M]
10. a) An antenna is operating at 20MHz. If a tag is within 15cms of the antenna, what type
    of coupling is taking place? Explain your answer.   **[5M]**
    b) Explain the specific regulations and standards that apply to RFID system used with
    animal identification.   **[7M]**
11. Discuss in detail about
    (a) RFID Tag (b) RFID readers   **[6+6M]**

QUESTION BANK
UNIT II

1. Write a short notes on
   (a) Low cost RFID protocols (b) Low cost manufacturing   **[6+6M]**
2. a) Discuss in detail about software and network of the EPC   **[7M]**
   b) Comment on low cost RFID protocols.   **[5M]**
3. a) Write short notes on the creation of the EPC global   **[6M]**
   b).What are the types of Low cost RFID protocols and explain each briefly.
                                                                               [6M]
4. a) Explain in detail about the distributed intelligent systems center   **[7M]**
   b) Explain in detail the creation of EPC global   **[5M]**
5. a) In terms of handling the software and network, explain in detail how the EPC face the
   challenges   **[6M]**
   b) Explain in detail about the history of evolution of industry for RFID technology
                                                                               [6M]
6. a) Discuss in detail about low cost manufacturing of RFID tags   **[6M]**
   b) How to protect the privacy of remote sensing technology and explain in briefly.
                                                                               [6M]
7. Write short notes on   **[6+6M]**
   (a) Privacy of RFID system   (b) The six Auto-ID labs
8. a) Write short notes on the history of EPC global   **[5M]**
   b) What is meant by distributed intelligent systems center and explain it? **[7M]**
9. a) Discuss in detail about the distributed intelligent systems center   **[8M]**
   b) Explain in detail about privacy of RFID tag in remote sending area.   **[4M]**

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QUESTION BANK
UNIT III

1. a) List out the different kinds of RFID systems and briefly explain about it. **[7M]**
    b) Give a brief note about the configuration of RFID technology **[5M]**
2. a) What is meant by middleware and write short notes on RFID middleware. **[6M]**
    b) Discuss in detail about the RFID integration with any two enterprise applications**[6M]**
3. a) Explain in detail about Electronic Product Coding (EPC) with their network elements. **[7M]**
    b) What is meant by Physical Markup Language (PML) and describe how the product can be written by these language. **[5M]**
4. a) How a RFID can be integrate with back-end applications and briefly explain about it with some examples. **[7M]**
    b) Describe in detail about the different types of RFID systems **[5M]**
5. a) How to configure the RFID solutions and show the way of configuration. **[6M]**
    b) Explain about client integration with some applications. **[6M]**
6. Write short notes on the following **[6+6]M**
    a) RFID middleware   b) Physical Markup Language (PML)
7. a) Show the applications of RFID integration and give a brief note about it **[7M]**
    b) What is the use of Physical markup language in RFID and explain in detail **[5M]**
8. a) Explain in detail about RFID standards on Electronic Product Coding (EPC) **[6M]**
    b) Integrate the RFID with enterprise applications and explain in detail. **[6M]**
9. a) What are the application servers available in RFID and discuss about the uses of these servers. **[5M]**
    b) Explain in detail how to integrate client using RFID technology **[7M]**
10. a) Explain the basic configuration of RFID solutions with some examples. **[6M]**
    b) Discuss about the network elements and information on Electronic Product Coding. **[6M]**

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QUESTION BANK
UNIT IV

1. a) Explain how business and government organizations can be benefited by RFID.**[6M]**
   b) What is U.S.A regulatory land scope with respect to RFID and briefly explain about it.
   [6M]
2. a) List out RFID's privacy threats and explain each briefly **[7M]**
   b) Write short notes on health impact **[5M]**
3. a) Discuss in detail about privacy as a fundamental human right. **[6M]**
   b) Give a brief note about labor impact **[6M]**
4. a) Explain in detail about integrity and security of the system of RFID technology **[8M]**
   b) What is the current state of RFID policy and briefly explain it. **[4M]**
5. a) Explain how business and government organizations can be benefited by RFID**[6M]**
   b) Explain briefly understanding RFID's privacy threats. **[6M]**
6. a) Briefly explain integrity and security of the system **[5M]**
   b) Explain about the health and labor impact **[7M]**
7. a) Explain important RFID policy issues **[7M]**
   b) What are the advantages and disadvantages of using RFID technology for public and
   private sectors? **[5M]**
8. a) Write short notes on the following **[6+6]M**
   a) Health Impact   b) Labor Impact
9. a) Discuss in detail about U.S.A regulatory in individuals using RFID technology**[5M]**
   b) What are the advantages of using RFID method in Government and security of the
   system **[7M]**
10. Write a short notes on **[6+6]M**
    a) RFID privacy threats   b) Current state of RFID policy

<u>QUESTION BANK</u>
<u>UNIT V</u>

1. a) Explain in detail about the applications of RFID in logistics and military **[7M]**
   b) Explain in detail about RFID technology in store. **[5M]**
2. Write short notes on the following **[6+6]M**
   a) RFID in the store
   b) RFID technology
3. Write short notes on the following **[6+6M]**
   i) Transforming the battle filed with RFID
   ii) Project jump start
4. a) Explain how the project jump start created to test full deployment of RFID tracking in the pharmaceutical industry **[5M]**
   b) Define logistics in the military. What are the various aspects of military operations the logistics deal with? Explain in detail. **[7M]**
5. Write short notes on the following **[6+6]M**
   a) CVS and Auto-ID
   b) Project jump start
6. a) How to identify and track an object using RFID technology **[5M]**
   b) Show the some applications for object tracking using RFID method and explain in detail **[7M]**
7. a) How the RFID technology can be useful in Pharmacy and discuss in detail **[6M]**
   b) Explain about battlefield with RFID technology **[6M]**
8. a) What is meant by Project jump start and explain in detail about uses of it. **[5M]**
   b) List out any two applications using RFID and explain in detail **[7M]**
9. a) Describe about RFID benefits in store applications **[6M]**
   b) Explain in detail how RFID can be useful in Military fields. **[6M]**
10. a) Give some examples for an object tracking using RFID **[5M]**
    b) Write a short note on Logistics and Military using RFID technology **[7M]**