

Roll No .....

**EC-6005 (2) (CBGS)**

**B.E. VI Semester**

Examination, May 2019

**Choice Based Grading System (CBGS)**

**RFID**

*Time : Three Hours*

*Maximum Marks : 70*

*Note:* i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Compare different ID systems.  
b) Discuss about the differential features of RFID system.
2. a) Discuss about the transponder construction formats.  
b) Discuss about the information processing in the transponder. What is the selection criteria for RFID systems.
3. a) Discuss the fundamental operating principles of RFID system.  
b) Discuss the physical principles of RFID system.
4. a) Discuss briefly about the frequency ranges and different radio licensing regulation.  
b) Discuss about the ISO 10374 container identification.

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5. a) Discuss briefly about different digital modulation procedures.  
b) Discuss about checksum procedure and multi access procedures.
6. a) Discuss about transponder with memory function.  
b) Explain about measurements using microwave transponder. http://www.rgpvonline.com
7. Discuss about the following
  - a) Read only transponder
  - b) Writable transponder
  - c) Transponder with cryptological function
8. Write short notes on any two of the following:
  - a) VDI4470-Anti theft systems for goods
  - b) Encrypted data transfer
  - c) Reader IC U2270B

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