

# C.U.SHAH UNIVERSITY

## Summer Examination-2017

**Subject Name: Wireless Technology for Embedded System**

**Subject Code: 5TE02WTE1**

**Branch: M.Tech (VESD)**

**Semester: 2**

**Date: 09/05/2017**

**Time: 02:00 to 05:00**

**Marks: 70**

**Instructions:**

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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### SECTION – I

- Q-1 Define the following terms. (07)**
- a. TDD
  - b. Node
  - c. Path loss
  - d. Sensor
  - e. Symbol Rate
  - f. Data Rate
  - g. BER

- Q-2 Attempt all questions. (14)**
- (a) Explain Sensors and its types.
  - (b) What is Aggregation? Explain in detail.

**OR**

- Q-2 Attempt all questions. (14)**
- (a) Compare FPGAs, and ASICs.
  - (b) Write a short note on CDMA.

- Q-3 Attempt all questions. (14)**
- (a) Explain Challenges for WSNs.
  - (b) Explain Transceiver tasks and characteristics in detail.

**OR**

- Q-3 Attempt all questions. (14)**
- (a) Explain the need of Wireless Technology for Embedded System.
  - (b) Write a note on Event-based programming model of WSN.



