

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Winter Examination-2015

**Subject Name: Wireless Security**

**Subject Code: 5TE03WSC1**

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

**Semester: 3**

**Date:22/12/2015**

**Time :2:30 To 5:30**

**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. GPRS classes
- b. Reflection
- c. Scattering
- d. Signal to Noise Ratio
- e. PSK
- f. Modulation
- g. Electromagnetic Radiation

**Q-2 Attempt all questions**

**(14)**

- a. Discuss the Signatures detection capabilities of Kismet.
- b. Explain Wellenreiter.

**OR**

**Q-2 Attempt all questions**

**(14)**

- a. What is Sniffing? Explain AiroPeek.
- b. Explain Quadrature Amplitude Modulation (QAM).

**Q-3 Attempt all questions**

**(14)**

- a. Explain Wireless Physical Layer.
- b. Compare FHSS and DSSS.

**OR**

- Q-3**
- a. What is OFDM? Discuss its technical specifications.
  - b. Why is Wi-fi installation more preferable to wired installation for wireless LAN and/or Internet connectivity? Justify your answer.



## SECTION – II

- Q-4**      **Define the following terms** **(07)**
- a. Absorption of Wave
  - b. Diffraction
  - c. Frequency Modulation
  - d. Cracking
  - e. Denial of Service
  - f. Scanning tools
  - g. Mobile Station Roaming Number

- Q-5**      **Attempt all questions** **(14)**
- a. Explain Ad Hoc Mode.
  - b. Explain Infrastructure Mode.

**OR**

- Q-5**      **Attempt all questions**
- a. Discuss 802.11a standard.
  - b. What is Personal Area Network (PAN) 802.15? Explain 802.15.1.

- Q-6**      **Attempt all questions** **(14)**
- a. Explain TDMA.
  - b. How is GSM Security implemented? Explain.

**OR**

- Q-6**      **Attempt all Questions**
- a. Explain the working of GPS system.
  - b. Compare PSK and DPSK.

