

**C. U. SHAH UNIVERSITY****Summer Examination-2020**Subject Name: **Wireless Networks & Security**Subject Code: **5CS05WNS1**Branch: **M. C. A.**Semester: **5**Date: **02/03/2020**Time: **10:30 To 01:30**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.

**SECTION-I**

- Q. 1 Answer the following questions. 07**
- (a) Define Cryptography. 02
  - (b) What do you mean by Hash Function? 02
  - (c) What do you mean by cryptanalyst? 02
  - (d) Give full form of HSCSD 01

- Q. 2 Attempt all questions. 07**
- (a) Explain 5G wireless cellular Network. 07
  - (b) Explain 802.11b Wireless LAN Standard. 07

**OR**

- Q. 2 Attempt all questions. 07**
- (a) Explain terms: ciphers, cryptology. 07
  - (b) What are the major securities threats in Networking? 07

- Q. 3 Attempt all questions. 07**
- (a) Explain how Digital Signature is different from conventional signature? 07
  - (b) Explain: Authentication and Data confidentiality or Privacy. 07

**OR**

- Q. 3 Attempt all questions. 07**
- (a) What is Data Encryption Standard? Give steps of encryption using DES. Give significance of cipher block chaining mode using DES. 07
  - (b) Differentiate between 4G & 5G Wireless Cellular Networks. 07

**SECTION-II**

- Q. 4 Answer the following questions. 07**
- (a) What is AMPS? 02
  - (b) What is digital signature? 02
  - (c) What is mobile IP? 02
  - (d) Give full form of UTMS 01



**Q. 5 Attempt all questions.**

- (a) Why stream cipher is needed when one already have a block cipher? **07**
- (b) Write two important reasons in favour for public key algorithms Vs. symmetric key algorithm for encryption. **07**

**OR**

**Q. 5 Attempt all questions.**

- (a) How does substitution cipher work for cryptography? Give classification of substitution cipher methods with examples **07**
- (b) Explain GPRS network architecture. **07**

**Q. 6 Attempt all questions.**

- (a) What is Public key algorithm? Write note on RSA. **07**
- (b) Draw and explain: The OSI Security Architecture **07**

**OR**

**Q. 6 Attempt all questions.**

- (a) Write note on Active Attacks and Passive Attacks. **07**
- (b) Explain 802.11a Wireless LAN Standard. **07**

