

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Cryptography and Network Security

Subject Code: 4TE06CNS1

Branch: B.Tech (CE,IT)

Semester: 6

Date: 17/04/2017

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & 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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- Q-1** **Attempt the following questions:** **(14)**
- a) Which type of substitution is called monoalphabetic substitution cipher?
 - b) Write the nominal version of RC5.
 - c) Which are parameters required for Random Number Generators?
 - d) Define Virus.
 - e) How many bits are generated in SHA?
 - f) List the function of Tunnel Mode.
 - g) List the Characteristics of Cryptography.
 - h) What is the use of Euclid's Algorithm?
 - i) Define One way Authentication.
 - j) Define Intruder.
 - k) What is the full Form of S/MIME?
 - l) Define Digital Certificate.
 - m) List the name of Block Cipher Algorithms.
 - n) Write the full form of ESP.

Attempt any four questions from Q-2 to Q-8

- Q-2** **Attempt all questions** **(14)**
- a) Explain OSI Security Architecture. **(07)**
 - b) Explain single round function of DES with suitable diagram. **(07)**
- Q-3** **Attempt all questions** **(14)**
- a) List various modes of operations of block cipher. Explain any three of them briefly. **(07)**
 - b) If sender send Plaintext as "Paymore" and key as "CEIT" find out Cipher text using Hill Cipher. **(07)**



