



K19U 0098

Reg. No. :

Name :

**VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.) Examination,
April 2019
(2014 Admission Onwards)
CORE COURSE IN COMPUTER SCIENCE
6B16CSC : E06 : Information Security**

Time : 3 Hours

Max. Marks : 40

PART – A

1. a) _____ is a principle of security.
- b) _____ means converting plain text to cipher text.
- c) The science and art of breaking secret code is _____
- d) DOS stands for _____
- e) If each occurrence of a character has different substitution, it is _____ substitution.
- f) Expand NIST.
- g) After parity drop operation, if a key consists of all 0's or 1's or half 0's and half 1's, they are _____ keys.
- h) _____ feistel rounds are present in encryption in DES. **(8×0.5=4)**

PART – B

Answer **any seven** :

2. Define confidentiality.
3. Differentiate passive attacks and active attacks.
4. Define digital signature.
5. Define Kirchhoff's principle.

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K19U 0098



6. Give and explain any two properties of a block cipher.
7. What is a private key ?
8. What is steganography ?
9. What do you mean by cipher text ?
10. Explain linear cryptanalysis.
11. What is Trojan Horse ? (7×2=14)

PART – C

Answer **any four** :

12. What is public key encryption ? Explain its main elements.
13. Explain security attacks.
14. What are cryptanalysis attacks ?
15. Explain keyless and keyed transposition ciphers.
16. Explain the weaknesses of DES.
17. Explain digital signature process. (4×3=12)

PART – D

Answer **any two** :

18. Explain DES structure.
19. Write notes on RSA digital signature scheme.
20. Explain the applications of key crypto systems.
21. Explain the various types of attacks. (2×5=10)