

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(IT) (E-I 2011 Onwards)/(CSE) (2011 Onwards E-I) (Sem.-6)

INFORMATION SECURITY

Subject Code : BTCS-904

Paper ID : [A2312]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**Write briefly :**

1. What is Port address?
2. What is a Worm?
3. What is Trojan horse?
4. Explain random number generation technique.
5. Explain Cryptography.
6. What is message authentication?
7. Explain Encryption security payload.
8. Who is an intruder?
9. What is a security threat?
10. Explain difference between HTTP and HTTPs.

SECTION-B

11. Explain the asymmetric Algorithm.
12. Explain the working of Diffie Hellman Algorithm.
13. What is the use of Digital Signature? Explain its working.
14. What is IPSec and how it works?
15. Explain the design principle of Firewall. What is use of firewall?

SECTION-C

16. Explain in detail the Symmetric key Cryptography.
17. What we do to provide security at :
 - a) Network Layer.
 - b) Application Layer.
18. Differentiate between :
 - a) SHA-1 and MD5
 - b) DES and Triple DES algorithm.