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Total No. of Questions : 09

B.Tech.(IT) (2011 Onwards) (Sem.-6)

INFORMATION SECURITY AND RISK MANAGEMENT

Subject Code : BTIT-602

Paper ID : [A2352]

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

Q1 Answer briefly :

- What is a worm?
- Explain different vulnerabilities.
- What are cookies?
- What is Cryptography?
- What is watermarking?
- Explain the use of firewall.
- What is message confidentiality?
- Explain the cost benefit analysis in security planning.
- Explain digital signature.
- Explain SHA-2 algorithm.

SECTION-B

Q2 Write about different Cryptographic algorithms.

Q3 Explain RSA Algorithm with an example.

Q4 What is the benefit of Pretty Good Privacy?

Q5 How threat assessment is done?

Q6 Explain Merkle- Hellman Knapsacks.

SECTION-C

Q7 Explain various security threats and write their solution.

Q8 How can we know that our system is compromised? Write about Risk Assessment.

Q9 Explain the Hash Algorithms. Also explain the message digest and its use.