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Total No. of Pages : 02

Total No. of Questions : 09

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

**INFORMATION SECURITY AND RISK MANAGEMENT**

Subject Code : BTIT-602

M.Code : 71172

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 :**

- a) What are Intruders in Information Security?
- b) What do you mean by vulnerability?
- c) Discuss SHA 1 hash function.
- d) What are digital signature standards?
- e) Give the role of Key management in cryptography.
- f) Define message confidentiality.
- g) What is DoS attack in information security?
- h) Write the purpose of DMZs?
- i) What is risk assessment process?
- j) Discuss risk value analysis.

### SECTION-B

- Q2 List the steps to develop a corporate information security process life cycle.
- Q3 Explain the principle of RSA algorithm by taking an example.
- Q4 What are the message authentication functions? What are its requirements?
- Q5 What is cyber crime and security? Give the examples of cyber crime.
- Q6 Discuss the role of effective risk analysis in risk management.

### SECTION-C

- Q7 Explain the importance of DES algorithm using the block diagram. Discuss the modified AES.
- Q8 How Pretty Good Privacy is used for sending secure encrypted messages in network?
- Q9 Show how risk management is used to identifying, monitoring and managing potential risks?

**NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.**