

No. of Printed Pages : 03

Roll No.

CC-589

M. Tech. EXAMINATION, Dec. 2018

(Third Semester)

(B. Scheme) (Main & Re-appear)

(CSE)

CSE665B

INFORMATION SECURITY RISK ANALYSIS

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(2-29/1) M-CC-589

P.T.O.

Unit I

1. List any *three* security threats for a computer system. Also suggest how to safeguard the computer against these threats ? **15**
2. Draw and explain a framework for vulnerability identification and assessment of a computer based information system. **15**

Unit II

3. (a) What is digital signature ? What are the services of digital signature ? **10**
(b) What is IDEA ? Explain briefly. **5**
4. Explain any *two* key exchange methods in detail. What is man in middle attack ? **15**

Unit III

5. List any *three* strategies followed by cyber criminals and hackers to steal your important information. Suggest some remedial steps to safeguard your crucial data against these attacks. **15**

6. Discuss the concept of theft and conspiracy in take-grant-protection model. **15**

Unit IV

7. List and explain any *five* organizational issues to be considered while making a risk management plan for an information system. **15**
8. Write and explain different modes of Risk analysis. Also write the components of effective risk analysis. **15**