Exam. Code : 217902 Subject Code : 7036

M.Sc. Information & Network Security 2nd Semester NETWORK SECURITY PRACTICES

Paper-II

Time	Allo	owed—3 Hours] [Maximum Marks—10	00			
Note	e :	- Attempt any five questions. All questions carry equ marks.	ıal			
1.	Differentiate between the following :					
	(a)	Modification and Fabrication.	10			
	(b)	Confidentiality and Non-repudiation.	10			
2.	What are different types of models for network security? Explain each by taking example. 20					
3.	Stat	State and explain the following : 801-TRAO (3)				
	(a)	Play fair Ciphers	10			
	(b)	Triple DES.	10			
4.	What is meant by linear cryptanalysis ? How it differsfrom steganography ? Explain.20					
5.	(a)	How random number generators are helpful in ensur confidentiality. Justify by taking suitable example				
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	(b)	management of RSA algorithm. Also take an exam of RSA to justify.	nple 10	
6.	Explain the following by taking example :			
	(a)	Key exchange algorithms	10	
	(b)	Principles of cryptography.	10	
7.	(a)	What are various functions for authentication information security?	n in 10	
	(b)	Demonstrate the working of Authentication coo	des. 10	
8.	ite short notes on the following :			
	(a)		5	
	(Ì)	Web security	5	
	(c)	State and explain the following * 81-TZAO	5	
	(d)	Caesar Cipher.	5	
		 (a) How random number generators are helpful in confidentiality. Justify by taking suitable en 		
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Exam. Code : 217902 Subject Code : 7037

M.Sc. Information & Network Security 2nd Semester COMPUTER FORENSIC FUNDAMENTALS Paper-III

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt any **five** questions. All questions carry equal marks.

- 1. What are Forensics ? Why is computer an easy tool for cyber forensics ? Explain.
- 2. What is Spyware ? How is it detected and removed ? Explain.
- 3. What are Biometric systems ? Explain the working of any one with suitable example.
- 4. How Cybercrime can be detected ? Explain one of the important techniques for the same.
- 5. What is Data Recovery ? Why is it important ? Explain the process of Data Recovery.
- 6. What is Cyber evidence ? How is it collected ? Explain one of the methods.
- 7. What is an Intrusion ? How is it detected and prevented ? Explain.
- 8. Write notes on :
 - (a) System Vulnerabilities
 - (b) Cyber detectives.

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Exam. Code : 217902 Subject Code : 7038

M.Sc. Information & Network Security 2nd Semester SECURE CODE DEVELOPMENT

Paper-IV

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt any **five** questions. All questions carry equal marks.

- 1. What is a software development life cycle ? Discuss various phases of waterfall model in detail.
- 2. Write short notes on :
 - (a) Rapid Prototyping
 - (b) Incremental development.
- Discuss various security issues during Software requirement specification and design phase of software development.
- 4. Briefly discuss :
 - (a) Proactive security development process
 - (b) SD3
- 5. Differentiate between :
 - (a) Authentication and Authorization
 - (b) Event based modeling and threat modeling.

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- 6. Write short notes on :
 - (a) Secure software installation
 - (b) Writing security documentation.
- 7. Briefly explain :
 - (a) Security testing
 - (b) Security code review.
- Discuss various security techniques used of creating a secure system.

What is a software development life cycle various phases of waterfall model in detail.

- . Write short notes on :
- (a) Rapid Prototyping
- (b) Incremental development.
- Discuss various security issues during Software requirement specification and design phase of software development.
 - Briefly discuss :
 - (a) Proactive security development process
 - (b) SD3
 - 5. Differentiate between :
 - (a) Authentication and Authorization
 - (b) Event based modeling and threat modelin

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