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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

M.B.A.

SEM: IV - THEORY EXAMINATION (2021 - 2022)

Subject: Cyber Security

Time: 3 Hours

Max. Marks: 100

General Instructions:

1. The question paper comprises three sections, A, B, and C. You are expected to answer them as directed.
2. Section A - Question No- 1 is 1 mark each & Question No- 2 carries 2 mark each.
3. Section B - Question No-3 is based on external choice carrying 6 marks each.
4. Section C - Questions No. 4-8 are within unit choice questions carrying 10 marks each.
5. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION A

20

1. Attempt all parts:-

- 1-a. BIOS is abbreviated as _____ (CO1) 1
- (a) Basic Input Output Server
 - (b) Basic Internet Output Systems
 - (c) Basic Input Output System
 - (d) Battery-based Input Output System
- 1-b. Risk management is one of the most important jobs for a (CO1) 1
- (a) Client
 - (b) Investor
 - (c) Production team
 - (d) Project manager
- 1-c. _____ refers to the technique used for verifying the integrity of the message.(CO2) 1
- (a) Digital signature
 - (b) Decryption algorithm
 - (c) Protocol
 - (d) Message Digest
- 1-d. Data Encryption Standard is an example of a _____ cryptosystem. (CO2) 1
- (a) conventional
 - (b) public key
 - (c) hash key
 - (d) asymmetric-key
- 1-e. Security feature which monitor resources access in the OS. (CO3) 1
- (a) Man Made
 - (b) public key
 - (c) conventional
 - (d) Access control
- 1-f. The purpose of backup is (CO3) 1
- (a) All are correct
 - (b) To restore small numbers of files after they have been accidentally deleted
 - (c) To restore one among many version of the same file for multiple backup

	environment	
	(d) To restore a computer to an operational state following a disaster	
1	ISO 9000 is a series is a _____ . (CO4)	1
	(a) quantity management standards	
	(b) qualification management standards	
	(c) quality management standards	
	(d) None of the above	
1	A major amendment to Information Technology Act, 2000 was made in the year (CO4)	1
	(a) 2001	
	(b) 2016	
	(c) 2012	
	(d) 2008	
1-i.	After performing _____ the ethical hacker should never disclose client information to other parties. (CO5)	1
	(a) hacking	
	(b) cracking	
	(c) penetration testing	
	(d) exploiting	
1-j.	An attacker may use automatic brute forcing tool to compromise your _____ (CO5)	1
	(a) username	
	(b) employee ID	
	(c) system / PC name	
	(d) password	
2. Attempt all parts:-		
2.a.	Differentiate between data and information (CO1)	2
2.b.	Write a short note on E-cash (CO2)	2
2.c.	Define the term masquerading.(CO3)	2
2.d.	What is IPR in information security? (CO4)	2
2.e.	List out some of the common tools used by ethical hackers? (CO5)	2
SECTION B		30
3. Answer any <u>five</u> of the following:-		
3-a.	Define information security. List down the principle of information security? (CO1)	6
3-b.	What do you mean by Information Assurance ? (CO1)	6
3	How does an Intrusion Detection System enhance security management? (CO2)	6
3	Write three advantages and disadvantages of secret key encryption? (CO2)	6
3.e.	Explain the components of information system (CO3)	6
3.f.	What is semiconductor law in cyber security? (CO4)	6
3.g.	Why is ethical hacking necessary? Explain the scope and limitation of ethical hacking. (CO5)	6
SECTION C		50
4. Answer any <u>one</u> of the following:-		
4-a.	Explain the five components that make up an information system. (CO1)	10
4-b.	Define Firewall and its types. (CO1)	10
5. Answer any <u>one</u> of the following:-		
5-a.	What do you mean by Digital Signature? Explain with examples. (CO2)	10

- 5-b. Define the term VPN. Explain different types of VPN in detail. (CO2) 10
6. Answer any one of the following:-
- 6-a. What do you mean by data storage? Provide 5 examples of storage media. (CO3) 10
- 6-b. What is cryptography? Discuss the different cipher methods with suitable examples. (CO3) 10
7. Answer any one of the following:-
- 7-a. What are the 3 key concepts in the patent law? How does cyber law protects intellectual property law? (CO4) 10
- 7-b. Define IT Act briefly. Explain Section 67 C of the IT Act? (CO4) 10
8. Answer any one of the following:-
- 8-a. Write short note on (CO5) 10
(a) Windows Hacking
(b) Bluetooth Hacking
- 8-b. Write short note on (CO5) 10
(a) Denial of Service
(b) Honey Pots