32. A. Elaborate in detail about the Intrusion Prevention and Intrusion Detection systems with precise examples.

(OR)

B. Identify and distinguish between the different types of malware and its detection methods.

* * * * *

Reg. No

B.Tech. DEGREE EXAMINATION, JUNE 2023

Fifth Semester

18CSE383T - INFORMATION ASSURANCE AND SECURITY

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:

i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40 minutes.

ii. Part - B and Part - C should be answered in answer booklet. Time: 3 Hours Max. Marks: 100 Marks BL CO Part - A $(20 \times 1 \text{ Marks} = 20 \text{ Marks})$ Answer All Questions 1. Identify the true statement of security education, security training, and security awareness (SETA). (A) The purpose of SETA is to enhance (B) The purpose of SETA is to enhance security by Improving awareness, security by Improving awareness. developing skills and knowledge developing skills and knowledge and building in-depth knowledge and to maintain the system (C) The purpose of SETA is to enhance (D) The purpose of SETA is to enhance security by training and developing security by fixing bugs, developing skills and knowledge and fix bugs skills and risk management 2. SSCP stand for (A) Systems Scrutiny Certified (B) Systems Sales Certified Practitioner Practitioner (C) Systems Standard Centric (D) Systems Security Certified Practitioner Practitioner Pick out the passive attack from the following (A) DDoS attack (B) Masquerade (C) Traffic Analysis (D) Phishing Technical software failures or error is called as (A) Bugs, Code problems, unknown (B) Antiquated or outdated loopholes technologies (C) Equipment failure (D) Destruction of systems or information 5. Select the test that is performed on a computer system to evaluate its security (A) Penetration test (B) Alpha test (C) Beta Test (D) Quality test 6. BYOD stands for 2 (A) Bring-Your-Own-Data (B) Bring-Your-Own-Device (C) Bring-Your-Original-Device (D) Bring-Your-Original-Data 7. "Social engineering attacks -wherein a user will be misled into revealing vital personal or critical information like system passwords to a source that disguises itself as legitimate". Identify the name of the attack (A) Social Engineering Attack (B) Man in the middle attack (C) Phishing (D) Snoofing Phishing is a form of (A) Spamming (B) Scanning

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(C) Identify Theft

(D) Impersonation

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9.	Identify the true statement about the inform I. Conveys management's intentions to its e II. Set of guidelines or instructions III. Organization's senior management implIV. Specifics and outline	mployees.	1	3	3
	(A) I only	(B) II only	·		
	(C) I, II and III	(D) II and IV only			
		•	1	•	2
10.	Recognize the law that deals with the admic commercial).	inistration of a civil society (property and	1	2	3
	(A) Administrative law	(B) Public Law		•	
	(C) Tort Law	(D) Patent			
11	Select the key size of Monoalphabetic Ciph	er	- January	1	3
12.	(A) 52	(B) 26			
	(C) 72	(D) 62			
			1	1	2
12.	Pick the correct equation that defines Expec	-	1	1	3
	(A) Annualized loss expectancy	(B) Annualized loss expectancy =			
	=Multiple loss expectancy	Single gain expectancy			
	*Annualized rate of occurrence	*Annualized rate of occurrence			
	(C) Annualized loss expectancy =	(D) Annualized loss expectancy =			
	Single loss expectancy *Annualized	Single loss expectancy *Annualized			
	rate of profit	rate of occurrence			
12	Identify the procedure which ensures that e	very alarm works properly	1	3	4
13.	(A) Duress Alarm response	(B) Security alarm response			
		(D) Frequency Alarm response			
	(C) Updation alarm response				
14.	helps to completely erase t	he information stored on the magnetic	1	1	4
	(A) Eraser-electric	(B) Eraser-Auto			
	(C) Degaussing	(D) Decasting			
15.	Which of the following is done among everyone aware of the job roles in the proje	the project members in order to make	•	1	4
	(A) Job Description Circulation				8
	(C) Job Delicacy	(D) Job Announcements			
1.0			1	3	5
10.	Select the true statement about signature-ba			2	2
	(A) It cannot work with an Intrusion	(B) It only identifies known signatures			
	Prevention System	(D) It waste hact in large enterprises			
	(C) It detects never-before-seen anomalies	(D) It works best in large enterprises.			
17.	is the act of gaining ille an individual's continuous exploring laptop with a Wi-Fi feature enabled	gal access to a network resulting from of the Wi-Fi wireless networks via a	1	1	5
	(A) War Gaining	(B) War Driving			
	(C) War Distraction	(D) War Grunting			
18.	The systematic examination of a critical in on which it relies, its information, or prod measures, identify security deficiencies, evalued adequacy of such measures after implement	aluate security alternatives, and verify the	I	2	5
	(A) Risk mitigation	(B) Penetration testing			
	(C) Vulnerability assessment	(D) Risk Assessment			

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19.	An unknown malware, one not previously identified can be detection is called		1900	2	5
	(A) One day attack (B) Zero day attack (C) Manie day attack (C) Manie day attack				
	(C) Man in the middle attack (D) Brute Force Att	ack	,	,	.
20.	NVD stands for (A) U.S. NIST's National Vulnerability Database (C) U.S NIST's Navigational Vulnerability Database (B) U.S NIST's No Database (D) U.S NIST's No Vulnerability D	n-Identical	eteril	1	5
	Part - B $(5 \times 4 \text{ Marks} = 20 \text{ Marks})$		Mark	is BL	CO
	Answer any 5 Questions				
21.	. Compare Software Development Life cycle and Sec Softwar cycle	e Development Life	4	4	1
22.	List the different categories of threats with proper examples		4	2	1
23.	Examine in detail about the following ciphers with example a. Ceaser cipher b. Mono alphabetic cipher		4	4	2
24.	. Write does the functions of Asset Performance Management Ma	turity Model (APM).	4	2	3
25.	25. Write short note on Preventive Information Assurance tool		4	1	4
26.	6. How incident handling process playing important role in security?		4	?	5
27.	Discuss about the components and the issues of different Information Security Policy		4	2	5
	Part - C (5 × 12 Marks = 60 Marks) Answer All Questions		Marl	is BL	CO
28.	Answer All Questions A. Describe the Security Services, Information States, and defined by the MSR model in detail.	Countermeasures as	Mark	is BL	1
28.	Answer All Questions A. Describe the Security Services, Information States, and				
	Answer All Questions A. Describe the Security Services, Information States, and defined by the MSR model in detail. (OR) B. Briefly outline the layered approach of Defense-in-Departments in each category in detail. A. Illustrate the course of action that will be designed to be respond effectively to a significant future incident, event or smay not happen. Explain with a professional example	oth and discuss the			
	Answer All Questions A. Describe the Security Services, Information States, and defined by the MSR model in detail. (OR) B. Briefly outline the layered approach of Defense-in-Departments in each category in detail. A. Illustrate the course of action that will be designed to be respond effectively to a significant future incident, event or significant.	oth and discuss the	12	2	1
29.	Answer All Questions A. Describe the Security Services, Information States, and defined by the MSR model in detail. (OR) B. Briefly outline the layered approach of Defense-in-Dercomponents in each category in detail. A. Illustrate the course of action that will be designed to respond effectively to a significant future incident, event or smay not happen. Explain with a professional example (OR) B. Explain about crisis management with suitable examples A. Some aspects of the implementation process are technical in the application of technology, while others deal instead with the technical systems. Illustrate about the technical and non-implementing information security	oth and discuss the help an organization situation that may or nature and deal with the human interface to	12	2	1
29.	Answer All Questions A. Describe the Security Services, Information States, and defined by the MSR model in detail. (OR) B. Briefly outline the layered approach of Defense-in-Dercomponents in each category in detail. A. Illustrate the course of action that will be designed to respond effectively to a significant future incident, event or smay not happen. Explain with a professional example (OR) B. Explain about crisis management with suitable examples A. Some aspects of the implementation process are technical in the application of technology, while others deal instead with the technical systems. Illustrate about the technical and non-	oth and discuss the help an organization situation that may or nature and deal with the human interface to	12	2	2
29. 30.	Answer All Questions A. Describe the Security Services, Information States, and defined by the MSR model in detail. (OR) B. Briefly outline the layered approach of Defense-in-Dercomponents in each category in detail. A. Illustrate the course of action that will be designed to be respond effectively to a significant future incident, event or smay not happen. Explain with a professional example (OR) B. Explain about crisis management with suitable examples A. Some aspects of the implementation process are technical in the application of technology, while others deal instead with the technical systems. Illustrate about the technical and non-implementing information security (OR) B. Explain about risk management in detail A. Why information assurance is needed. Explain in detail assurance awareness, training, education and its benefits	oth and discuss the help an organization situation that may or nature and deal with the human interface to technical aspects of	12	2	2
29. 30.	Answer All Questions A. Describe the Security Services, Information States, and defined by the MSR model in detail. (OR) B. Briefly outline the layered approach of Defense-in-Dercomponents in each category in detail. A. Illustrate the course of action that will be designed to respond effectively to a significant future incident, event or smay not happen. Explain with a professional example (OR) B. Explain about crisis management with suitable examples A. Some aspects of the implementation process are technical in the application of technology, while others deal instead with the technical systems. Illustrate about the technical and non-implementing information security (OR) B. Explain about risk management in detail A. Why information assurance is needed. Explain in detail	nelp an organization situation that may or nature and deal with the human interface to technical aspects of il about information shopping cart. Only phases in software orporated. Give your	12	2 2 3	2

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