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Total Pages: 4 Roll No.

MIT(CS)-1020/CEGCS-02

Cyber Security Techniques

(MCA/MSCCS/PGDCS/CEGCS)

3rd / 1st Semester Examination, 2023 (June)

Time: 2 Hours] Max. Marks: 70

Note: This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

SECTION-A (Long Answer Type Questions)

Note: Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

 $(2 \times 19 = 38)$

- **1.** Answer the following:
 - (a) What is an insider attack? Explain different types of insider attacks. (9)
 - (b) What is an outsider attack? Explain different types of outsider attacks. (10)

2.	Answer the following:				
	(a)	Define IT Asset Management (ITAM) ?	(3)		
	(b)	Differentiate between tangible and intangible asse	ets? (4)		
	(c)	Write down the steps for securing an asset.	(4)		
	(d)	Define WEP and WPA.	(4)		
	(e)	What are the security problems with WEP and W Explain briefly.	PA?		
3.	Answer the following:				
	(a)	Define residual risk.	(3)		
	(b)	Discuss common methods of conducting assessment.	risk (3)		
	(c)	What is OCTAVE.	(3)		
	(d)	Write a note on COBIT.	(3)		
	(e)	Write a note on NIST cyber security framework.	(4)		
	(f)	Define Factor analysis of information risk (FAIR). (3)		
4.	Answer the following:				
	(a)	What is ITU-cyber wellness profile?	(4)		
	(b)	What is ITU-cyber security index?	(5)		
	(c)	Discuss the categories and parameters on which c security index is calculated.	yber (5)		
	(d)	Discuss National cyber security policy of India.	(5)		

5.	Answer the following:					
	(a)	What is DMZ?	(3)			
	(b)	Make diagram of IDS Components?	(4)			
	(c)	Differentiate network and host based IDS?	(4)			
	(d)	List out key features and types of Hardwar Module (HSM).	re Security (4)			
	(e)	What is a Full-Simulation exercise?	(4)			
		SECTION-B				
(Short Answer Type Questions)						
Not	e :	Section 'B' contains Eight (08) short an questions of Eight (08) marks each. Learners a to answer any Four (04) questions only.	re required			
1.						
	(a)	Define social engineering.	(4)			
	(b)	What is CIA? Explain.	(4)			
2.	Exp	plain working of PGP in detail along with dia	ıgram.			
3.	List out five basic differences between policies and procedures.					
4.	An	swer the following:				
	(a)	Explain significance of maturity models.	(4)			
	(b)	Write note on cyber security capability matur	rity model. (4)			
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Answer the following:				
(a)	Security is a continuous process - explain.	(4)		
(b)	Write note on "security integration within SDLC"			
		(4)		
Answer the following:				
(a)	Explain different types of social engineering attack	ks.		
		(4)		
(b)	How to defend against social engineering attack?	(4)		
Answer the following:				
(a)	Write note on Digital India program.	(4)		
(b)	Discuss National cyber security exercises.	(4)		
Answer the following:				
(a)	What is a manual security testing?	(4)		
(b)	Write a note on DSCI.	(4)		
	(a) (b) Ans (a) (b) Ans (a) (b) Ans (a)	 (a) Security is a continuous process - explain. (b) Write note on "security integration within SDLC" Answer the following: (a) Explain different types of social engineering attack (b) How to defend against social engineering attack? Answer the following: (a) Write note on Digital India program. (b) Discuss National cyber security exercises. Answer the following: (a) What is a manual security testing? 		