Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.TECH MAKEUP EXAMINATIONS, JAN 2023

CYBER SECURITY [ICT 3156]

Marks: 50   **Duration: 180 mins.**

A

Answer all the questions.

Instructions to Candidates: Answer ALL questions Missing data may be suitably assumed

1)		Discuss Various browser attacks with respect to their execution and action	(5)
	A)		
	B)	Does a PKI perform encryption? Explain your answer with relevant justifications	(3)
	C)	Distinguish between general exploit and zero day exploit with examples. Also suggest the solutions for same	(2)
2)		Explain five different types of browser attacks with relevant examples	(5)
	A)		
	B)	When the access policies are different from access control mechanisms? Suggest various techniques for effective policy implementation	(3)
	C)	Highlight the importance of ethics in incident analysis. How incidents related to computer services and privacy rights?	(2)
3)		"Risk analysis is a management activity which is at the heart of security planning". Explain five reasons to justify the necessity of performing risk analysis	(5)
	A)		
	B)	With the help of suitable examples illustrate Man in the browser attack	(3)
	C)	Discuss various acts to cause security harm in cyber security with example	(2)
4)		Build a Trusted Computing Base (TCB) implementation with security kernel and its interactions monitored by TCB	(5)
	A)		
	B)	Choose and justify suitable parameters to design a good security plan. Recognize and discuss the components of good policy statement	(3)
	C)	Classify ways to protect websites against changes	(2)
5)		The chief security architects for Multics proposed various design principles essential for building a solid trusted operating system. How each one of them are significant and applicable?	(5)
	A)		

B)   In RSA cryptosystem, why can't the public key is 1 and 2? If e=13 and n= 100, encrypt the message (3)
        "CYBER SECURITY" using the 00 to 25 encoding scheme for characters and 26 for space with
        block size=3

C)   Illustrate variants of coupling   (2)

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