Reg. No.: 20BCE1707

Name :

VIT

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act 1956)

Continuous Assessment Test I – August 2022

Programme	:	B.Tech	Semester	:	FS 2022-23
Course	:	Information security Analysis and Audit	Code	:	CSE3501
			Class Nbr	:	CH2022231000238, CH2022231000300, CH2022231000301, CH2022231000703
Faculty	:	Dr. Prasad M, Dr. Anusha K, Dr. Nachiappan S, Dr. Rukmani P	Slot	:	F2
Time	:	90 Minutes	Max. Marks	:	50

Answer ALL the questions

Q.No.	Sec.	Questions	Marks
1.		Nik`s system is held hostage until he agrees to pay an amount to Alice. After the payment has been sent, Alice then provides instructions regarding how Nik can regain control of his computer. Discuss the attack performed with diagram and solution.	10
2.		Bagle uses a common method of taking advantage of websites owned by Alice that depend on databases to serve his customers. Clients are computers that get information from servers, and logs are sent from the client to a database on the server. The command that is inserted normally goes there, such as a password or login. The server that holds the database then runs the statement and the system is penetrated. Discuss the attack in the above scenario and provide diagram with solution.	10
3.		Nik downloads unknown contents, either from a website or from within an email attachment, Commands are written to exploit vulnerabilities that have not been addressed by either the system's manufacturer or the IT team. The unknown contents then encrypt the Nik's workstation. Discuss this scenario and provide the solution.	10
4.		Take an educational institute that uses resources like laptop, routers, switches, servers, CCTV, data center etc. The unexpected things like bad weather, short circuit and earthquakes may happen at any time. How do you create a disaster recovery policy for the institute? The policy should cover objective, overview, purpose, scope, policy details and policy compliance.	10
5		Consider an organisation has various departments like HR, Finance, Production and Dispatch. As a security management professional working for the organization, highlight the use of Identify and Access Management (IdAM) in various level at each department.	10

Course Faculty

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