B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Sixth Semester

Information Technology

20ITEL603 - CYBER SECURITY AND FORENSICS

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks	K-Level	CO
1.	Define cyberspace.	2	K2	CO1
2.	Mention the advanced patterns created by the Identity management community.	2	K2	CO1
3.	What do you mean by GDPR?	2	K1	CO2
4.	What is the need for cyber law?	2	K2	CO2
5.	Differentiate static acquisition and live acquisition.	2	K2	CO3
6.	What is need of evidence custody form?	2	K2	CO3
7.	Mention the scenarios when the firewalls will be less effective.	2	K2	CO4
8.	Mention the key concepts of vulnerability management.	2	K2	CO4
9.	Mention few tools in an initial-response toolkit.	2	K1	CO5
10.	How are digital incidents secured?	2	K2	CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Justify the statement – "Security considerations are essential for managing the web asset".	13	K2	CO1
		OR			
	b)	Discuss about the impact of GDPR in various domain.	13	K2	CO1
12.	a)	Discuss on the significance of data encryption in business.	13	K2	CO2
		OR			
	b)	Elaborate on cyber security threats in detail.	13	K2	CO2
13.	a)	Explain the process of data acquisition from RAID drives.	13	K2	CO3
		OR			
	b)	Explain the steps in conducting an investigation for the Montgomery_72018 case.	13	K2	CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

12619

14. a) i)	Explain the process involved in ethical hacking.	6	K2	CO4
ii)	Discuss about the various types of hackers.	7	K2	CO4

OR

b)	What is an Intrusion Detection System? Explain the types with suitable example.	13	K2	CO4

15. a)	Discuss about collecting evidence in private-sector incident scenes.	13	K3	CO5

OR

b)	Elaborate the tasks performed by the digital forensic tools.	13	K3	CO5

PART - C (1 × 15 = 15 Marks)

16. a)	Explain the investigation of E-mail crimes with suitable example.	15	K2	CO6

OR

b)	Explain the acquisition procedures for mobile devices in cyber forensics.	15	K2	CO6