B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2023
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.	List the characteristics of cyberspace.	2,K1,CO1
2.	What are the challenges addressed by WS-I?	2,K1,CO1
3.	What is GDPR?	2,K2,CO2
4.	Mention the significance of cyber law.	2,K2,CO2
5.	Differentiate static acquisition and live acquisition.	2,K2,CO3
6.	Enumerate the advantages and disadvantages of raw format.	2,K1,CO3
7.	Differentiate firewall and antivirus.	2,K1,CO4
8.	What are the causes of vulnerability?	2,K2,CO4
9.	Define plain view doctrine.	2,K2,CO5
10.	How to evaluate the digital forensics tools?	2,K1,CO5

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

11.	a)	Discuss the role of CIA traid in cyber security.	13,K2,CO1
		OR	
	b)	(i) Discuss the fundamentals of cyber security in detail.	6,K1,CO1
		(ii)Write short notes on the four layers of Cyberspace.	7,K1,CO1
12.	a)	Elaborate on cyber security threats in detail.	13,K2,CO2
		OR	
	b)	Explain the measures to be implemented for mitigating cyber attack.	13,K2,CO2
13.	a)	Explain the steps taken in systematic approach when preparing for a case.	13,K2,CO3
		OR	

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create　　　***12260***

	b)	Describe the process of data acquisition from RAID drives.	*13,K2,CO3*

14. a) (i) Elaborate the process involved in ethical hacking.   *6,K2,CO4*
       (ii) Discuss the various types of hackers.   *7,K2,CO4*

OR

   b) Discuss about threat management in detail with suitable examples.   *13,K2,CO4*

15. a) Detail the steps comprising the procedure in preparing for a search.   *13,K2,CO5*

OR

   b) Enunciate the digital forensics software and hardware tools.   *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain the various techniques for addressing data hiding.   *15,K2,CO6*

OR

   b) Describe in detail the guidelines for report writing.   *15,K2,CO6*