KUMARAGURU
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B.E/B.TECH DEGREE EXAMINATIONS: NOV/DEC 2022

(Regulation 2018)

Third Semester

COMMON TO ALL BRANCHES(Except CSE & ISE)

U18CSR3011:Introduction to Cyber Security

COURSE OUTCOMES

CO1: Understand the basics of information security, threats and attacks.

CO2: Apply the scientific method for security assessment.

CO3: Apply methods for authentication, access control, intrusion detection and prevention.

CO4: Explore network security analysis tools.

Time: Three Hours   **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1. List the components of information security.	CO1	[K$_1$]
2. Name the different components of an information system.	CO1	[K1]
3. What is phishing? Give its types.	CO1	[K1]
4. How adware is differ from ransom ware.	CO1	[K1]
5. Show the relationship between stages of risk assessment.	CO2	[K$_1$]
6. When the information security policy will become enforceable.	CO2	[K$_1$]
7. Define firewall.	CO3	[K$_1$]
8. Define the term honeypot and honey net.	CO3	[K$_1$]
9. Name and briefly explain about different types of network scanning.	CO4	[K$_1$]
10. Why should you audit your website for security?	CO4	[K$_1$]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	a)	Explain various types of attacks.	16	CO1	[K$_2$]
12.	a)	Compare and contrast Denial of Service attack and Distributed Denial of Service attack.	6	CO1	[K$_4$]
	b)	Explain the types of DoS and DDoS attacks.	10	CO1	[K$_2$]

13.	a)	Plan that you are a member of security management team of a network based company. If risks are identified and documented, Explain the various risk controlling strategies that you are going to adopt to manage the identified risks.	16	CO2	[K3]
14.	a)	Sandeep is appointed as a member of an information security team in a multinational company, being a fresher Sandeep decided to learn the fundamentals of intrusion detection and prevention system. List and explain the basic terminologies of intrusion detection and prevention system that will be helpful for Sandeep to understand the fundamental concepts.	16	CO3	[K4]
15.	a)	List and explain the various foot printing methodologies to gather information for security analysis.	16	CO4	[K4]
16.	a)	Explain any four laws of information security.	16	CO2	[K2]

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