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Reg. No.:						
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Question Paper Code: U2604S

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

(Professional Elective)

Computer Science Engineering

21CSV604-CYBER SECURITY

(Common to AIML and CSD)

(Regulations 2021)

	(Regulations 2021)								
Dura	ation: Three hours	Maximum:	100 Marks						
PART A - $(10 \times 2 = 20 \text{ Marks})$									
1.	What is Cyber Security and How it is different from Information Security?								
2.	Who are Cyber Criminals and what kind of harms done by them/								
3.	Define Social Engineering Attack and its types								
4.	Distinguish the terms "Hackers, Crackers and Phreakers"								
5.	5. What is the goal of social engineering reconnaissance?								
6.	What is the function of the -A switch in Nmap?								
7.	7. Create a Presentation on "Cyber Security Attacks"								
8. Define hybrid intrusion detection system									
9. What is Firewall?									
10.	0. What do you mean by packet filtering in Firewall?								
	$PART - B (5 \times 16 = 80 \text{ Marks})$								
11.	(a) Examining the Cyber Crimes and Cyber Criminals during t recent period.	he CO1 U	(16)						
	Or								
	(b) Apply the Indian cyber laws for various Cyber Crimes.	CO1 U	(16)						
12.	(a) Explain the types of Malicious Attack in detail. Or	CO1 U	(16)						
	(b) Define a web application attack and explain why w applications are often targeted by cybercriminals. Provi		(16)						

examples of common web application vulnerabilities.

13. (a) You are tasked with identifying potential security weaknesses in a CO2 App company's network. Describe how you would approach this task, starting from reconnaissance to reporting vulnerabilities.

Or

- (b) Write the differences between port scanning techniques such as CO2 App (16) SYN scan, Stealth scan, and XMAS scan? When would you use each?
- 14. (a) How can be Intrusion Detection system is the backbone of CO2 App (16) Information system? Justify along with its categories.

Or

- (b) Which system was designed and implemented for the detection of CO2 App intrusions in a multi-user Air Force computer system. Explain in detail
- 15. (a) Evaluate the impact of firewall placement in network architecture CO3 Ana (16) on its ability to protect different segments of the network.

Or

(b) Compare and contrast firewalls and intrusion prevention systems CO3 Ana (16) (IPS) in terms of their roles and effectiveness in protecting network infrastructure. What unique advantages does each provide?