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Department of Computer Engineering

(Shortlisted Mock Interview Questions)

Course: Information Security (22PCCO6030T)

Class: T.Y. B. Tech.

Name of Faculty: Mr. Vishal S. Thakare, Ms J. S. Sonawane

Q. No.	Interview Question	Answer
1	What is Cryptography?	<ul style="list-style-type: none">• Cryptography is the practice and study of techniques for securing information and communication mainly to protect the data from third parties that the data is not intended for.• It is a technique through which we convert a plain text to cipher text and cipher text to plain text.• Plain text is a message that can be understood and read by any human, whereas Cipher text is an encrypted message that can only be read but cannot be understood.• Plain text is converted to cipher text using a key and vice versa. With this key, we can decode the cipher text into plain text.
2	What is the difference between IDS and IPS?	<ul style="list-style-type: none">• IDS is Intrusion Detection System and it only detects intrusions and the administrator has to take care of preventing the intrusion.• IPS i.e., Intrusion Prevention System, the system detects the intrusion and also takes actions to prevent the intrusion.
3	How is Encryption different from Hashing?	<ul style="list-style-type: none">• Both Encryption and Hashing are used to convert readable data into an unreadable format.• The difference is that the encrypted data can be converted back to original data by the process of decryption but the hashed data cannot be converted back to original data.
4	What is a Firewall and why is it used?	<ul style="list-style-type: none">• A Firewall is a network security system set on the boundaries of the system/network.• It monitors and controls the incoming and outgoing network traffic based on an organization's previously established security policies.• Firewalls are mainly used to protect the system/network from viruses, worms, malware, etc. Firewalls can also be to prevent remote access and content filtering.

5	What is phishing?	<ul style="list-style-type: none"> • Phishing is a type of cyber-attack. • It involves sending fake emails and messages to trick people into providing sensitive information, including credit card details and passwords. • It can be carried out through social media, phone calls, or SMS messages.
6	What does XSS stand for? How can it be prevented?	<ul style="list-style-type: none"> • XSS is an abbreviation for cross-site scripting. • Cross-site scripting (XSS) is a vulnerability in web applications that allows third parties to execute scripts on behalf of the web application in the user's browser. <p>To prevent XSS:</p> <ul style="list-style-type: none"> • Validate and sanitize user input • Escape output before rendering in HTML • Use secure frameworks like React/Angular • Implement Content Security Policy (CSP)
7	What do you mean by Network Sniffing?	<ul style="list-style-type: none"> • Network Sniffing is a passive approach for monitoring network communication, decoding protocols, and inspecting headers and payloads for relevant information. • It is a technique for both identifying and analysing targets. • Sniffers are used by attackers to capture data packets including sensitive passwords and account information.
8	What is cyber security? (Clover Infotech)	<ul style="list-style-type: none"> • Cyber security is the practice of protecting systems, networks, and programs from digital attacks. • It involves using a variety of security measures to prevent unauthorized access, data breaches, and other cyber threats.
9	What is a Denial of Service attack?	<ul style="list-style-type: none"> • A Denial of Service attack is a cyber-attack that aims to disturb the functioning of a network or website. • It does so by sending a massive volume of traffic to the target website from multiple sources; this makes it impossible to respond to any user requests or messages on the website. • This results in financial and reputational damage.
10	What is the man-in-the-middle attack?	<ul style="list-style-type: none"> • This is a type of cyber-attack in which the attacker stays between the two to carry out their mission. • The type of function it can perform is to modify the communication between two parties so that both parties feel like they are communicating over a secure network.