

Instructions:

- Figures to the right indicate Full Marks.
- Do not write anything on the question paper.

Q.1) Give the Full form of following terms (Any Five) (5 Marks)
 (1) ISMS (2) IDS (3) SDN (4) SPI (5) ACL (6) DLP (7) IPSec

Q.2) Do as Directed (True/False) (Any Five) (5 Marks)

- (A) Threats from the environment include things such as floods, tornados, hurricanes, and so on.
- (B) If the threat is an individual who is employed by your organization, then it is considered an internal threat.
- (C) CLD.6.3.1 This is not an agreement on shared or divided security responsibilities between the customer and cloud provider.
- (D) NIST publishes a number of standards, many of which are related to stock market.
- (E) When you design the security topology of your network, you are concerned with the access methods, security, and technologies used.
- (F) Firewalls are one of the first lines of defence in a network.
- (G) VPNs typically use a Tunnelling protocol, such as Layer 2 Tunnelling Protocol, IPSec, or Point-to-Point Tunnelling Protocol (PPTP).

Q.3) Fill in the gaps (Any Five) (5 Marks)

- (A) A _____ is a weakness that could be exploited by a threat.
- (B) When you're doing a risk assessment, one of the most important things to do is to _____.
- (C) _____ can be either qualitative (opinion-based and subjective) or quantitative (cost-based and objective).
- (D) The meaning of the word likelihood is usually _____.
- (E) _____ involves identifying a risk and making the decision not to engage any longer in the actions associated with that risk.
- (F) The Platform as a Service (PaaS) model is also known as _____.

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Q.4) Answer the following (Attempt any Five)

(10 Marks)

- (A) What is Annual Loss Expectancy (ALE)?
- (B) Memorandum of Understanding (MOU) means?
- (C) Explain Risk Acceptance
- (D) What is Intrusion Prevention System (IPS)?
- (E) Describe Personally Identifiable Information (PII)
- (F) Explain false negative
- (G) What is Active Response?

Q.5) Answer the following questions by selecting appropriate choice:

(05 Marks)

- (1) What technology uses mathematical algorithms to render information unreadable to those lacking the required key?
 - A) DLP
 - B) Data Obfuscation
 - C) Data Minimization
 - D) Data Encryption

- (2) Sharif receives a bill for services that he does not believe his company requested or had performed. What type of social engineering technique is this?
 - A) Credential harvesting
 - B) A hoax
 - C) Reconnaissance
 - D) An invoice scam

- (3) What language is STIX based on?
 - A) PHP
 - B) HTML
 - C) XML
 - D) Python

- (4) Tony is reviewing the status of his organization's defenses against a breach of their file server. He believes that a compromise of the file server could reveal information that would prevent the company from continuing to do business. What term best describes the risk that Tony is considering?
 - A) Strategic
 - B) Reputational
 - C) Financial
 - D) Operational

- (5) What type of malware is adware typically classified as?
 - A) A DOG
 - B) A backdoor
 - C) A PUP
 - D) A rootkit

Q.6) Answer the following (Attempt any Two)

(20 Marks)

- (A) Explain RAID in details.
- (B) What is Firewall? Explain type of Firewall in details.
- (C) Explain DLP in detail, including the environment and mechanisms.

Q.7) Answer the following (Attempt any Two)

(20 Marks)

- (A) Explain the Model of Cloud Computing in details.
- (B) Explain Risk Assessment in details.
- (C) Explain types of backups.