

## IMSc IT (IMS &amp; CS) (NEP) Sem.-4 Examination

DSC-M-IMS-244T

Fundamentals of IT Security

Time : 1-00 Hour]

May-2025

[Max. Marks : 25

**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) MTD (2) SLA (3) DMZ (4) IPS (5) AP (6) BIA (7) SMTP

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

- (A) Exposure Factor (EF) means the potential percentage of loss to an asset if a threat is realized.
- (B) A configuration of multiple hard disks used to provide fault tolerance should a disk fail is called RAID.
- (C) Physical network means the entire network, including all security devices, is virtualized.
- (D) Firewall is a technology which does not provide any security in the network.
- (E) An intrusion detection system (IDS) is software that runs either on individual workstations or on network devices to monitor and track network activity.
- (F) Routers are intelligent devices, and they store information about the networks to which they're connected.
- (G) Switch is a Layer-2 device.

**Q.3) Answer the following (Attempt any five)****(5 Marks)**

- (A) What is Mean Time Between Failures (MTBF)?
- (B) Explain Risk Avoidance.
- (C) What is the meaning of Vulnerability ?
- (D) What is a honeypot?
- (E) What is Firewall?
- (F) Explain false positives.
- (G) What is Risk?

**Q.4) Answer the following (Attempt any One)****(10 Marks)**

- (A) Explain VPN in detail.
- (B) Explain Risk Management Best Practices in detail.