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MSEI-022

**MASTER OF SCIENCE (INFORMATION
SECURITY)/**

**P. G. DIPLOMA IN INFORMATION
SECURITY (MSCIS/PGDIS)**

Term-End Examination

December, 2025

MSEI-022 : NETWORK SECURITY

Time : 2 Hours

Maximum Marks : 50

Note : (i) *Question No. 1 is compulsory.*

(ii) *Attempt any **three** questions from
the rest.*

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1. Explain the following in brief : 4×5=20
- (a) Network firewall
 - (b) Distributed Denial of Service (DDoS)
 - (c) Software Defined Networking (SDN)
 - (d) Next generation firewall

2. Explain the working of stateless firewall. 10
3. What are challenges of using the IDS and IPS in context of cyber security ? 10
4. Explain network security at various TCP/IP layers. Which layer is highly attacked and why ? 10
5. Discuss the importance of network segmentation in modern network security architecture. 10

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