

(2 Hours)**[Total Marks: 60]**

- N. B.:** (1) All questions are compulsory.
 (2) Numbers to the right indicate marks.
 (3) Make suitable assumptions wherever necessary and state the assumptions made.
 (4) Answers to the same question must be written together.
 (5) Mixing of Sub-Questions is not allowed.
 (6) Draw neat labelled diagrams wherever necessary.

1. Attempt any two of the following:**12**

- Differentiate between active and passive attacks.
- Explain the concept of Base/Bound Registers.
- Write about DoS and DDoS Attacks.
- Describe the concept of Segmentation.

2. Attempt any two of the following:**12**

- Explain any two types of Network layer attacks.
- Write in brief about Alerts and Audit Trails.
- Define Intrusion Detection Systems. Explain its types.
- Write a short note on Secure Sockets Layer (SSL).

3. Attempt any two of the following:**12**

- What are the different Techniques used for user Authentication?
- Explain ESX vs. ESXi: Key Differences.
- Write in brief about Network-attached storage.
- What is Software-as-a-Service (SaaS)? State its advantages & disadvantages.

4. Attempt any two of the following:**12**

- State the characteristics of cellular systems.
- Write in brief about attacking 802.11 networks.
- What are Wireless networks? Explain its types.
- Explain in detail Zig Bee Attacks.

5. Attempt any two of the following:**12**

- Write in brief about Secure Electronic Transaction (SET).
- State the Proposals for multilevel database security.
- What is Kerberos? State its role & significance.
- Explain in brief about Open-Source Bluetooth Sniffing.
