

Duration: 2hr 30min

Total Max. 70

Instructions: Illustrate your answers with neat diagrams wherever necessary.

Ques.1 Answer the following questions:

- i. What is Network? Explain types of networks.
- ii. Explain NAT with the help of diagram.

OR

- i. What is a subnet mask in IT networks, and how is it used to identify a network and host address?
- ii. Give difference between OSI model and TCP/IP Model in detail.

7Marks
7Marks7Marks
7Marks**Ques.2 Answer the following questions:**

- i. Explain Application layer using example.
- ii. Write down first 3 layer of OSI model and explain it in details.

OR

- i. What is network devices? Explain various types of devices.
- ii. Explain IPS and its types.

7Marks
7Marks7Marks
7Marks**Ques.3 Answer the following questions:**

- i. How to implement VPN Manual Write down Steps.
- ii. What is RAP? Explain in detail.

OR

- i. What is STS? Explain in detail.
- ii. Explain PPTP using diagram.

7Marks
7Marks7Marks
7Marks**Ques.4 Answer the following questions:**

- i. What is nessus? Write down installation steps.
- ii. Explain netwrok policies in details.

OR

- i. What is ARP poisoning? Write down practical steps .
- ii. What is wireshark? Explain packet analysis using wireshark.

7Marks
7Marks7Marks
7Marks**Ques.5 Attempt any seven out of twelve.**

14Marks

1. What is network sniffing?
2. Explain word Poisoning?
3. What is ettercap?
4. Full form of IPS
5. What is firewall?
6. Give difference between Router and Hub?
7. Give full form of L2TP
8. What is Authentication Header?
9. What is Extranet?
10. Full form of VOIP
11. What is openvas?
12. What is DOS?