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2604 N451 A

**Integrated M.Sc. Cybersecurity & Forensics Semester- 4 (Repeater)****ICSF – 209****IT Network Security****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. 7Marks
- ii. Explain NAT with the help of diagram. 7Marks

**OR**

- i. What is a subnet mask in IT networks, and how is it used to identify a network and host address? 7Marks
- ii. Give difference between OSI model and TCP/IP Model in detail. 7Marks

**Ques.2 Answer the following questions:**

- i. Explain Application layer using example. 7Marks
- ii. Write down first 3 layer of OSI model and explain it in details. 7Marks

**OR**

- i. What is network devices? Explain various types of devices. 7Marks
- ii. Explain IPS and its types. 7Marks

**Ques.3 Answer the following questions:**

- i. How to implement VPN Manual Write down Steps. 7Marks
- ii. What is RAP? Explain in detail. 7Marks

**OR**

- i. What is STS? Explain in detail. 7Marks
- ii. Explain PPTP using diagram. 7Marks

**Ques.4 Answer the following questions:**

- i. What is nessus? Write down installation steps. 7Marks
- ii. Explain network policies in details. 7Marks

**OR**

- i. What is ARP poisoning? Write down practical steps. 7Marks
- ii. What is Wireshark? Explain packet analysis using Wireshark. 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?