

**Subject: Network Security**

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### **SHORT ANSWER QUESTIONS**

Q.1 Expand the following:

a) VPN b) RAID c)RSA d)IDS e)SSL

Q.2 Explain integrity role in information security with example.

Q.3 What is firewall? What are its types?

Q.4 What is malware and its types?

Q. 5 What are the advantages of VPN?

Q.6 What do you mean by attack? What are the various types of attack?

Q.7 what is an application server? What are its functions?

Q.8 How firewall is deployed?

Q.9 What are the limitations of IDS?

Q.10 Explain firewall integrated VPN in brief?

Q.11 What are the various symptoms and indications of a computer virus infection?

Q.12 Explain the various protocols of WAN in brief?

Q.13 What is a disaster? What are its types?

Q.14 What are the key principles of security?

Q.15 What is Trojan Horse? What is the principle behind it?

Q.16 What is the difference between substitution cipher and transposition cipher?

Q.17 List the characteristics of a good firewall implementation.

Q.18 Distinguish between LAN and WAN security issues.

Q.19 Discuss the roles and responsibility of privacy.

Q.20 What is VPN? Explain its architecture.

Q.21 Write a short note on authentication failures.

Q.22 Write a note on Digital Signatures?

Q.23 Explain the basics of SSH.

Q.24 What is an attack. Explain its types?

### **LONG ANSWER QUESTIONS**

Q.1 Discuss the various disaster prevention methods.

Q.2 Discuss RSA algorithm with a simple example.

Q.3 What is IDS? Discuss IDS limitations and counter measures.

Q.4 Write short notes on the following:

a) RAID      b) Worms

Q.5 What is encryption? Explain the various methods of encryption?

Q.6 Explain the following terms related to VPN

a) VPN diagram      b) Exchange of keys

Q.7 What is a computer virus? Explain the various functional part of computer virus.

Q.8 Write short notes on:

a) Address translation

b) Security solution for a network

Q.9 What is backup? Explain the various types of back up in brief?

Q.10 What is Denial of service attack? What are methods of performing this attack and how we can prevent this attack?

Q.11 Write down comparative analysis of HIDS vs NIDS.

Q.12 What is cryptography? Explain types of algorithms for cryptography. Differentiate between symmetric and asymmetric algorithm.

Q.13 Explain VPN and its types. Describe the advantages and disadvantages of VPN?

Q.14 What are the various advantages and disadvantages of HIDS and NIDS?

Q.15 Write a note on firewall logic and firewall rules.

Q.16 Why firewall logging is considered to be an important part?

Q.17 What is access control? Explain the methods to protect computer system.

Q.18 Write a note on SSL encryption.

Q.19 Explain the working of PGP?

Q.20 Explain the following terms:

- a) Router
- b) Firewall
- c) Switch
- d) Ethical Hacking
- e) Cyber Crimes