**SRM Institute of Science and Technology**

**Delhi- NCR Campus, Modinagar**

**Department of Computer Science and Engineering**

**Academic Year: 2022-23**

**18CSE354T – NETWORK SECURITY**

**Unit – 1**

1. **Explain the following internetworking devices with diagram,**

* **Bridge**
* **Switch**
* **Router**
* **Hub**
* **Repeater**

1. **Discuss the various types of networking interface cards.**
2. **Explain the different types active and passive attacks with neat diagrams.**
3. **List the different types of firewall and mention design criteria of a firewall to protect the host machines in an educational institution.**
4. **Explain the different types of firewall.**
5. **Describe some difficult problems associated with firewalls.**
6. **Explain the intrusion detection system with diagrams.**
7. **Compare Comparing IDS vs IPS and router switch vs hub.**
8. **Explain the Taxonomy of Malicious Programs.**
9. **Explain the following intrusion prevention systems,**
   1. **Signature-based**
   2. **Anomaly-based**
   3. **Policy-based**