Q2. List top 10 OSI layer based attacks

Ans:

**Layer 1 : Physical Layer Security**

1. Access Control
2. Damage data bits
3. Environmental issues
4. Disconnection of Physical Links.
5. Backup

**Layer 2 : Data Link security (Switch Security)**

1. ARPs/ARP spoofing
2. MAC Flooding
3. Spanning Tree Attacks
4. Private VLAN attack
5. Multicast brute force attack
6. Random frame stress attack

**Layer 3 : Network Security (Router Security)**

1. IP Address Spoofing
2. Back Hole

**Layer 4 : Transport Layer Security**

1. SYN Flood
2. Smurf Attack

**Layer 5 : Session layer Security**

1. Session Hijacking
2. MITM Attack

**Layer 6 : Presentation Layer Security**

1. SSL Hijacking

**Layer 7 : Application Layer Security**

1. Virus
2. Worm
3. Phishing
4. Key Loggers
5. Backdoors
6. Program logic flaws
7. Bugs
8. Trojan Horses