

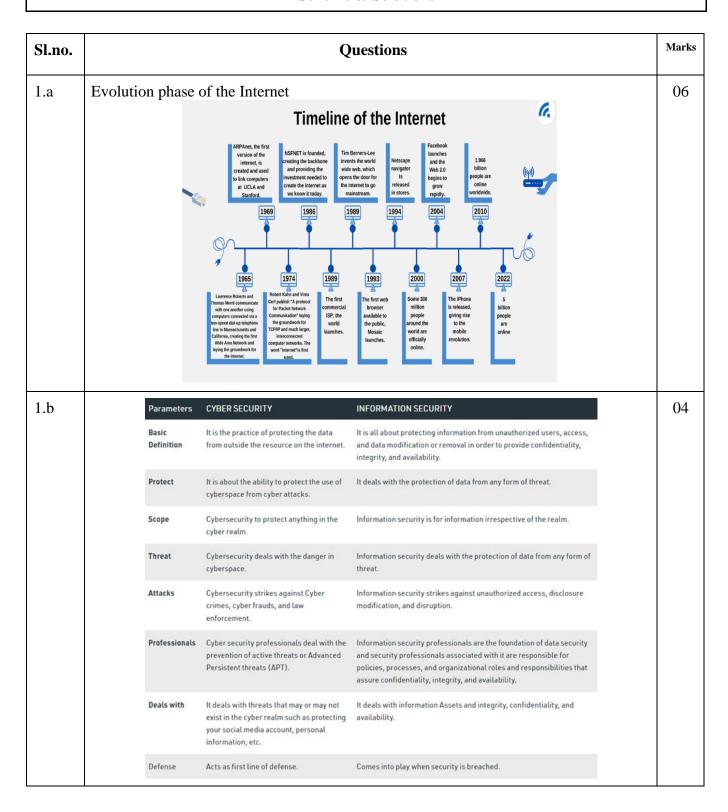
RV College of Engineering® Department of Computer Science and Engineering CIE - I: Test Paper

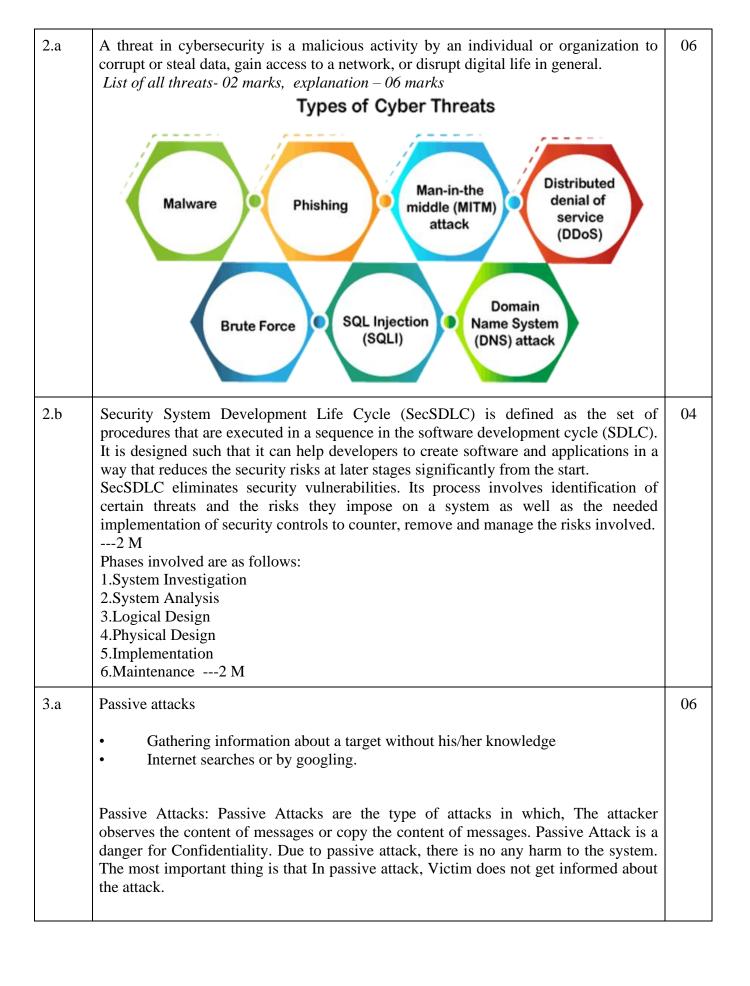
Course & Code

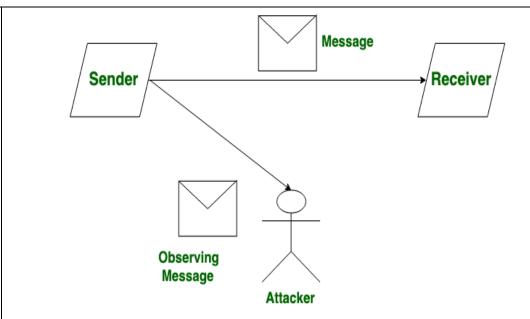
INTRODUCTION TO CYBER SECURITY (CS124BTF)

Semester: II

Scheme & Solutions







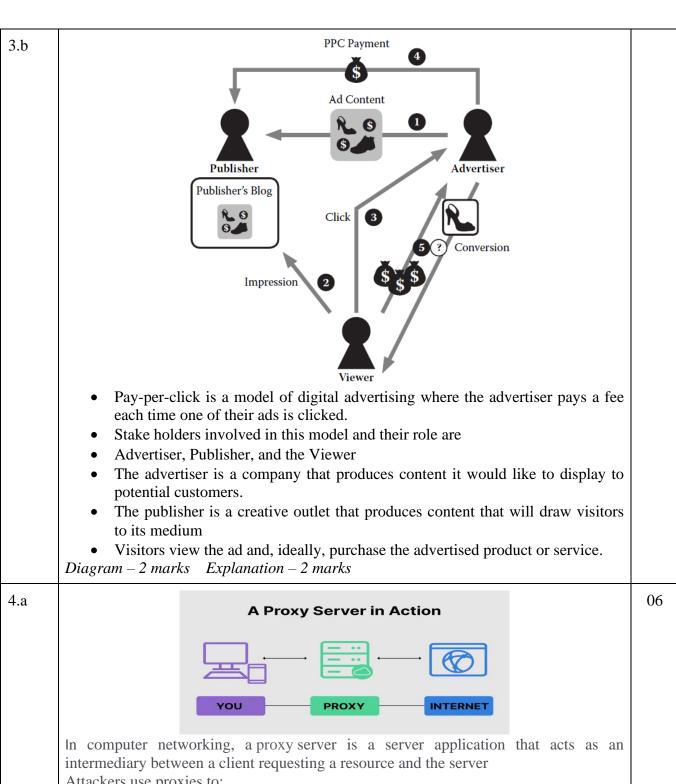
Passive Attack

In passive attacks, the attacker observes the messages, then copy and save them and can use it for malicious purposes. The attacker does not try to change the information or content he/she gathered. Although passive attacks do not harm the system, they can be a danger for the confidentiality of the message.

- In passive attacks, the attacker observes the messages, then copy and save them and can use it for malicious purposes.
- In passive attacks, information remains unchanged.
- Unlike active attacks, in passive attacks, victims do not get informed about the attack.
- The passive attacks do not harm the system.
- In passive attacks, the system resources remain unchanged.
- They can be dangerous for confidentiality of the message.
- In active attacks, attention is on prevention.
- It involves traffic analysis, the release of a message.
- Unlike active attacks, passive attacks are easy to prohibit.

Passive attack and explanation – 3 marks

3 tools with explanation − *3 marks*



Attackers use proxies to: 1.IP address masking 2. Anonymity 3. Geographical obfuscation

4. Access control bypass 5. Traffic encryption

4.b	 While filling the application: Stay with computer: should not leave system un-attended. Be alert: careful about the shoulder snooping for username and password. Use Virtual Keyboard: Better to use s/w keyboard to avoid the hacking for pin. while doing online fee payment. Security warnings: warning messages posted by financial organizations while accessing the financial accounts in cyber cafe 2 marks After filling the application: Always logout: Logout of the services that were used with username and password credentials Change password: Change the password / pin of the financial account on your personal lap-top or Desktop 2 marks 	
5.a	Analyze the steps involved in "How the criminals plan their attack" Justify your answer.	06
5.b	Explanation for Shoulder surfing -2 marks Dumpster Driving -2 marks	04