11. (a) Assume that Alice sends a message to Bob and the public key	encryption
algorithm is used to encrypt the message. Explain which key Alice uses to	encrypt the
message and how Alice authenticates Bob.	[6]
(b) There are two general mechanisms to achieve authentication: Authority (CA) and Web of Trust. Discuss the differences between	
nechanisms.	[8]
(c) What is a replay attack? Give two solutions to prevent replay	attacks and
explain how these two solutions work.	[6]