# Internet Security Questions

1. Explain the difference between symmetric and asymmetric encryption

Symmetric key uses the same key for encrypting and decrypting a message, asymmetric encryption uses different keys

1. Write down the steps for sending a digital signature
2. Apply a hash (one way encryption), to the message, to produce the message digest
3. Encrypt the message digest, using the sender’s private key and an asymmetric encryption algorithm to produce the digital signature, S.
4. Append the signature to the original message and encrypt using the receiver’s public key to produce the cyphertext C to be sent.
5. Explain the difference between Worms, Trojans and Viruses

Worms spread without the need for human agency, where as viruses require human intervention to spread. Trojans allow a hacker to gain unauthorised access to your computer and to take control of it

1. Explain how antivirus software works

Antivirus regularly performs scans the computer, looking for files that match the contents of its database which contains a library of known malware. When malware has been identified it is quarantined.