Page:

## Tutorial 2

Q. 1 Comment on the following security services as listed below and also complete the entries with their supporating security mechanisms.

Confidentiality: encipherment, nouting control

Traffic flow confidentiality: encipherments traffic padding, nouting control

Data Integrity: encipherment, data integrity.
digital signature

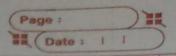
Anailability: Access control, authentication exchange

No repudiation: digital signature, notarisation

Q. 2 Comments on following attacker profiles:

Hacker: A person skilled in information technology who uses their technical knowledge to achieve a goal or overcome an obstacle, within a computerised system by non-standard means.

Crackers: People who hack a system by breaking into it and violating it with some had intentions.



Script kiddies: They are unskilled individuals who use scripts or programs developed by others, primarily for malicious purposes Spies: People we who perform the act of obtaining secrete and confidential information without the permission and knowledge of the holder using proxy servers, trojan horses and spywares. Employees: Disgruntled employees often present an insider threat to date. They can easily breach the sensitive information and exploit it for malicious purposes. Cyber terrorists: They are well funded group of politically inspired attackers who attempt to steal or corrupt corporate and government data in order to disrupt/harm the countries businesses and individuals. Emplain the following security approaches 8.3 Attack Deterrance: Access control Abback Prevention: Enciptorment, data integrity

Attack Prevention: Encephorment, data integral

Attack Deflection! Bit stuffing, notwissation

Attack Avoidance: Authentication exchange.

Allack Avoidance: Authentication exchange, digital signatures