

wan Putera Nur Syafiq bin Wan Jefen  
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PART A

Question 1

a) what is computer security

Computer security is the safeguarding of computer systems and data againsts harm, theft and unauthorized use. It is the process of preventing and detecting unauthorized use of a computer system.

b) i) Policy

ii) ~~Mechanism~~ Mechanism

iii) ~~Policy~~ Confidentiality

iv) Integrity

v) ~~Policy~~ Availability

vi) privacy

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Question 2

a) Yes because these framework can secure privacy from any unauthorized users or by given access to wrong users.

b)



### question 3

a) ~~The~~ ~~conce~~ Reference monitor is an abstract ~~technique~~ notion of a mechanism for controlling ~~the~~ access requests.

b) ~~A~~ i) A firewall. A firewall is a special form of reference monitor.

ii) Operating system. Reference monitor concept defines a set of design requirement on a reference monitor. validation mechanism. Example of OS that use reference monitor is Windows 2000 and Windows XP.

iii) Research produce working prototypes for reference monitor implementation that the process were carefully codified into a technical standard specifically designed to be used to evaluate the security systems.

## PART B

### Question 1

a) The most suitable control type is Role Based Access Control because RBAC ensures guarantees that employees only have the access to the information they need to perform their jobs and prohibits them from accessing information that is irrelevant to them.

b) ~~The most suitable access control structure to use is access control matrix because it defines a subject's access right such as read, write, and execute on an object.~~

The most suitable access control structure to use is Access Control List. because ACL authorized to access a specific object and it define what level of authorization is granted.