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Question 1.

- a) Computer security is the application of technologies, processes and control to protect systems, networks, programs and devices data from cyber attacks.
- b) i) Policy  
ii) Mechanism  
iii) Policy Confidentiality  
iv) Integrity  
v) Availability  
vi) Privacy

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Question 2.

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

b)

(3)

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## Question 3

- a) Reference monitor is an abstract notion of a mechanism for controlling access requests.
- b) i) Implementing security kernel that requires enforcing rigorous distinguishing properties for subjects and objects in all accesses performed by a computer systems.
- ii) Today OS used in most systems that apply Reference Monitor principles that such OS can be able to protect a sensitive domain from unauthorized domains.
- iii) Research produced working prototypes for Reference Monitor implementation that the processes were carefully codified into a technical standard ~~spec~~ ~~specifically~~ specifically designed to be used to evaluate the security systems.

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Question 1

- a) Role Based Access Control (~~RBAC~~) (RBAC) because <sup>is</sup> lectures ~~is~~ not allowed to access students record all time, they only can access while teaching them. Also, because it also prohibited unauthorized user from access the file that cannot be access.
- b) Access Control List (ACL) because the security kernel for network access specifying which areas of server/network/service can be accessed by a user. Also, because it also tells which activities is allowed and not