## Quiz #4

## Security and Privacy Sept. 29, 2018

Name: Student N	<u> Vumber:</u>
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1. Access Control Matrix model is considered to be a general s controlling who can access what in a security system because it			
(A) includes the necessary elements for access control	4 (9%)		
(B) specifies the rights for subjects to access objects	18 (39%)		
(C) works for any number of subjects, objects and access rights	24 (52%)		
(D) has a two-dimensional matrix	0		
(E) none of the above	0		
2. In the Bell-LaPadula Model, mandatory policy is required to be checked prior			
to discretionary policy because the former than the			
(A) is more mandatory	11 (24%)		
(B) reflects more precisely the confidentiality requirement	31 (68%)		
(C) can be determined more easily	3 (6%)		
(D) takes less time to complete	0		
(E) none of the above	1 (2%)		
3. In the mandatory policy of the Bell-LaPadula model, a subject w	ith a lower		
clearance level is allowed to modify (but not to read) an object with a higher			
classification level because			
(A) such an access would never happen	0		
(B) the model doesn't consider modification as a possible form of access			
(C) allowing such access doesn't violate the confidentiality requirement			
(D) the discretionary policy could be relied upon to prevent the modificati			
(E) none of the above	0		
4. The purpose of introducing the notion of the category into the General Bell-			
LaPadula Model is to	2 (60/)		
(A) unify the clearance and the classification levels using a single concept	, ,		
(B) constrain the clearance and the classification levels within a scope	40 (88%)		
(C) introduce another element for access control  (D) raplace the element and the electification levels	1 (2%)		
<ul><li>(D) replace the clearance and the classification levels</li><li>(E) none of the above</li></ul>	2 (4%)		
5. An availability model should  (A) specify access control rules that would make information and resource	og gagagibla		
to legitimate users			
(B) include techniques that can fight against known attacks	31 (68%) 8 (17%)		
(C) define security levels for all the subjects and objects	3 (6%)		
(D) identify all attacks that cause the availability problem	3 (0%) 4 (9%)		
(E) none of the above	4 (9%) 0		
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6. Hybrid models or policies mainly address	_ requirement.
(A) the confidentiality	0
(B) the integrity	2 (4%)
(C) the availability	1 (2%)
(D) a mix of confidentiality, integrity and availability	43 (94%)
(E) none of the above	0
7. Role-based access control would	·
(A) definitely make identity-based access control obsolete	0
(B) generally simplify the management of access control	36 (78%)
(C) definitely improve the granularity of access control	10 (22%)
(D) obviously solve the confidentiality, integrity and availability problems 0	
(E) none of the above	0

## **Honor list (in alphabetical order): 18 (39%)**

白 婧 毕诗旋 蔡亦华 冯泽琛 黄 琚 李锐智李雨承 林 健 刘滔文 刘 颖 马天嘉 苏立梓 王 品 徐天元 姚健菁 于 璐 张馨以 朱学涵

Absentees (in alphabetical order): 8 (15%)

Bartkowski Clancy Crown Gwizdz Labuzek Moylan Raman 孙力 吴瑀