

## Quiz #6

### Security and Privacy

Oct. 18, 2018

Name:

Student Number:

1. Super user role is considered to be a violation of the least privilege principle because it grants to the super user \_\_\_\_\_ access privilege.  
(A) too much  
(B) too little  
(C) just about right  
(D) none of the above
2. Access Control Matrix model is considered to be a general solution for controlling who can access what in a security system because it \_\_\_\_\_.  
(A) includes the necessary elements for access control  
(B) specifies the rights for subjects to access objects  
(C) works for any number of subjects, objects and access rights  
(D) has a two-dimensional matrix  
(E) none of the above
3. The access control lists (ACLs) mechanism is a derivative of the access control matrix, so is the capabilities mechanism.  
(A) True  
(B) False
4. ACLs would simplify the access control matrix in the following aspects: \_\_\_\_\_.  
(A) management of the matrix  
(B) dealing with fewer number of subjects and objects  
(C) dealing with fewer number of access privileges  
(D) all of the above  
(E) none of the above
5. The main mechanism that could make ACLs much shorter is \_\_\_\_\_.  
(A) a smaller number of subjects  
(B) a smaller number of objects  
(C) a smaller number of access privileges  
(D) the default rule of no access if a subject doesn't appear in a list  
(E) none of the above
6. The default rule of no access if a subject doesn't appear in an ACL would result in \_\_\_\_\_ to be examined before the decision of no access can be concluded.  
(A) the first few elements in the list  
(B) the last few elements in the list  
(C) the entire list  
(D) no element in the list  
(E) none of the above

7. \_\_\_\_\_ could help to improve the granularity of the ACL mechanism in making access control decisions.

- (A) The default rule of no access
- (B) The “explicit denial” access right
- (C) Having a fewer number of access rights
- (D) Having a fewer number of subjects
- (E) None of the above

8. Capabilities is deemed to be hard to implement due primarily to the reason that the lists constructed are associated with \_\_\_\_\_.

- (A) objects
- (B) subjects
- (C) both subjects and objects
- (D) none of the above