

Course Title: IT security  
Date : 14/ 04 / 2019  
No. of Questions: 2 Questions  
Time: 1 hour  
Using Calculator ( No )



Midterm Exam  
2<sup>nd</sup> semester 2018/2019  
Total Grade: 15

Instructor Name: Prof. Aiman Abu Samra  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: \_\_\_\_\_  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

First Question	No Of Branches 2	6.5 Marks
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**1. Choose the correct answer: (2.5 marks)**

1. Include a variety of propagation mechanisms and payload modules that even novices can deploy  
a- Attack tool kits      b- Advanced persistent threats      c- Attack sources- Viruses
2. Carefully select the target and make stealthy intrusion efforts over extended periods.  
a- Attack tool kits      b- Advanced persistent threats      c- Attack sources- Viruses
3. One of the following is not an SQLi detection method  
a- Signature based      b- Anomaly based  
b- Input construction      d- Code analysis
4. UNIX files are administered using  
a- protection domains      b- index nodes  
c- discretionary control      d- control structures
5. Encryption of the primary key (for encrypted database) is done at  
a- The client      b- the server  
c- both the client and the server

**Answer the following questions: (4 marks)**



1. Explain two Scanning strategies that a worm can use

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2. Write three worm replication methods

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3. Describe the following types of viruses:

a- File infector virus

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b- Macro virus

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c- Encrypted virus

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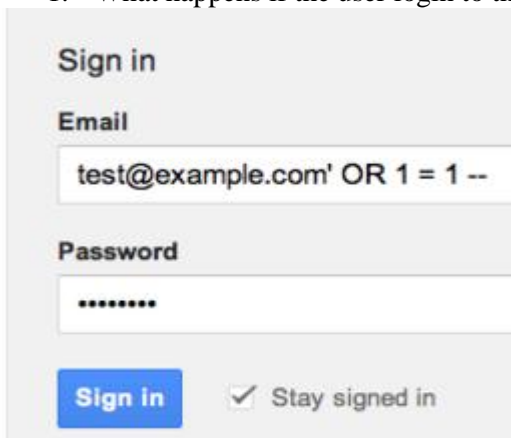
d- Polymorphic virus

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**Second Question** **No. Of Branches 4, 8.5 Marks**

**Answer the following questions:**

1. What happens if the user login to the system as follows:



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2. Explain how the virus program determines whether or not a potential victim program has already been infected with this virus.

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3. How the virus turn around the check of the file size, done by the operating system?

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4. In Figure 4.4 explain the organization of the access control function

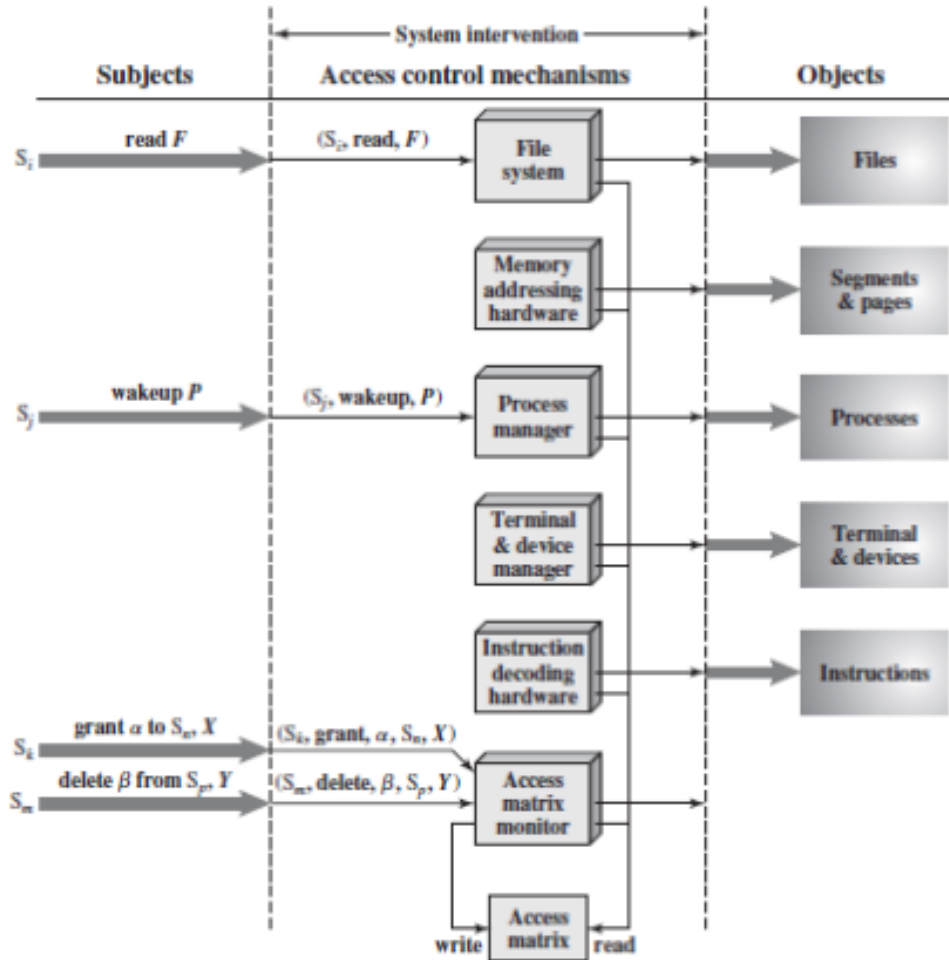


Figure 4.4 An Organization of the Access Control Function