

Privacy

- 1) What is the acronym of the Canadian private sector privacy law?
 - i) PIPA
 - ii) **PIPEDA**
 - iii) PEPODA
 - iv) PIPADA

- 2) What type of OS uses a command line based interface?
 - i) **UNIX**
 - ii) Windows
 - iii) MAC
 - iv) AndroidOS

- 3) What is meant by 'authorization'?
 - i) The act of indicating a person or a thing's identity.
 - ii) The act of verifying/proving the claimed identity of the agent'
 - iii) **The act of specifying access rights/privileges to resources**
 - iv) The act of assigning a serial number to something

- 4) How many levels of assurance are there on identification and authentication based on NIST guidelines?
 - i) 1
 - ii) 2
 - iii) 3
 - iv) **4**

- 5) How can someone best protect from having their passwords stolen?
 - i) Create strong password based on NIST guidelines
 - ii) Use multi factor authentication for all accounts
 - iii) Not access unauthorized sites
 - iv) **All of the above**

- 6) What is used to properly enforce authorization systems?
 - i) **Using access controls**
 - ii) Issuing ID cards
 - iii) Using multifactor authentication
 - iv) Using biometrics

- 7) Which of these ways can be used to identify a computer?
 - i) Serial number
 - ii) Cryptographic Keys
 - iii) Network Address
 - iv) **All the above**

Access Control

1) Which of these can be considered as 'subjects' in a university file system?

- i) **The student who logging in**
- ii) Student's assignment files
- iii) Password manager system
- iv) Course homepage

2) Which of these can be considered as 'objects' in a university file system?

- i) Student logging in
- ii) **Student's assignment files**
- iii) Student's profile page
- iv) Teacher's profile page

3) What kind of accesses does Jonathan have for file A?

Alice: {<A,r/w>, <B,w>, <C,r>}
Jonas: {<A,r/w/x>, <B,r/w>, <C,->}
Jonathan: {<A,r/w/x>, <B,r>, <C,x>}
Ali: {<A,x>, <B,r/w>, <C,r/w/x>}

- i) Read only
- ii) Write only
- iii) Execute only
- iv) **All of the above**

4) What kind of access policy allows users to pass on their privileges to other users?

- i) Mandatory Access Policy
- ii) **Discretionary Access Policy**
- iii) Role Based Access Policy
- iv) None of the above

5) Which one of these is a feature of Discretionary Access Control?

- i) Information flow is easily controlled
- ii) **Information flow cannot be controlled**
- iii) Uses the Bell Lapuda model
- iv) Has classes with partial order

6) What kind of access policy enforce access control based on regulations mandated by a central authority?

- i) **Mandatory Access Policy**
- ii) Discretionary Access Policy
- iii) Role Based Access Policy
- iv) None of the above

- 7) What is the main principle of the Bell Lapuda Model?
- i) No write up, no read up
 - ii) No read up, no write down**
 - iii) No write down, no read down
 - iv) No read down, no write up
- 8) Which numerical notation denotes unix permission of read and execute for all.
- i) 0000
 - ii) 0700
 - iii) 0555**
 - iv) 0666
- 9) What is the sixth field in the output of UNIX ls-l permission command?
- i) User that owns the file/directory**
 - ii) The group that owns the file/directory
 - iii) The permissions of the owner
 - iv) The number of links or directories inside this directory
- 10) What is the 'Complete mediation' principle from "The Protection of Information in Computer Systems" from Saltzer and Shroeder
- i) Base access decisions on permission rather than exclusion.
 - ii) When things go wrong ensure system defaults to a safe state.
 - iii) Every access to every asset must be checked for authority**
 - iv) Every program and user should operate while invoking as few privileges as possible.

Malware

- 1) What kind of malware spreads with little-to-no user involvement?
 - i) **Worms**
 - ii) Trojan
 - iii) Virus
 - iv) Logic Bomb
- 2) What does the 'dropper' malware do?
 - i) Gathers information about users' and then uses it to display targeted advertisements to user
 - ii) **A program that has been designed to "install" malware on a target system**
 - iii) Surreptitiously gathers information about users' activities and transmits them to a third
 - iv) Malware that are designed to runs with highest possible privileges, access software areas that are otherwise not allowed.
- 3) What was the name of the most widespread internet worm, that was released on September 18, 2001?
 - i) **NIMDA**
 - ii) PIMDA
 - iii) SIMDA
 - iv) KIMDA
- 4) What kind of malicious computer program can replicate itself by modifying other programs or files to insert a copy of itself?
 - i) **Virus**
 - ii) Trojan
 - iii) Worm
 - iv) Logic Bomb
- 5) How can a computer infect itself?
 - a) Infect one or more programs that run at startup
 - b) Add itself to list of startup programs
 - c) Put itself in the boot sector \Rightarrow run before the OS boots
 - d) **All of the above**
- 6) What kind of virus detection detects viruses by going over a list of known viruses and characteristics?
 - i) **Signature-based detection**
 - ii) Behaviour-based detection
 - iii) File integrity checking with cryptographic key
 - iv) None
- 7) What is the name of the malware program that appears to perform some useful task, but which also does something with negative consequences?

- i) Virus
- ii) Trojan**
- iii) Worm
- iv) Logic Bomb

8) What is the name of threats that uses continuous sophisticated techniques to gain access to a system and remain inside for a prolonged period of time?

- i) APT**
- ii) BPT
- iii) PPT
- iv) CPT