

Name:**ID:**

Circle and Mark the starting of the sentences below with one correct letter: P, D, or R, according to the best of your knowledge: P = prevention D = detection R = recovery

- P D R 1- A password-changing program will reject passwords that are less than five characters long or that found in the dictionary.
- P D R 2- Only students in COE 449 class will be given WebCT access of the course.
- P D R 3- The login program will disallow logins of the account whenever any students enter their passwords incorrectly three times.
- P D R 4- When World Wide Web traffic climbs to more than 80% of the network's capacity, systems will disallow any further communication to or from the Web servers until traffic goes lower.
- P D R 5- Omar, a system analyst, will be able to sense a student using a program to scan the system for vulnerabilities.
- P D R 6- WebCT of the course will be used for homework submission. WebCT will turn itself off just after the due deadline.
- P D R 7- The system admin can reset the accounts whenever needed by the user.

Connect the two columns related to the course:

- | | |
|-----------------------|---|
| 8- Confidentiality | Requires that neither of the authorized parties deny the aspects of a valid transaction |
| 9- Authentication | Hiding contents of messages exchanged in a transaction |
| 10- Integrity | Ensuring that the origin of a message is correctly identified |
| 11- Non-repudiation | Server is assumed to be not responding due to attacker deleting its' response to client |
| 12- Denial of Service | Only authorized parties are able to modify computer system assets and transmitted information |

Chose all possible security attack threat(s) or related component from the three basic components (C I A) representing the following cases or concerns: Confidentiality = C Integrity = I Availability = A

- C I A 13- A student breaks into a professor's computer account to obtain a copy of the next day's quiz?
- C I A 14- A student gives an electronic ATM payment for SR100 to buy a book. Later he finds that his account reported the payment for SR1000?
- C I A 15- A student sends hundreds of e-mails per day to another student using fake e-mail address?
- C I A 16- A student writes the answers to a test on a tiny paper, rolls up the paper, and insert it in a ball-point pen, and passes the pen to another student?
- C I A 17- While sending a message, a spy replaced some unnecessary characters with symbols that do not have immediate meaning to the sender nor receiver and they could not recognize difference?
- C I A 18- A company uses special ink and marks on its check to prevent forgeries?
- C I A 19- A graduate student uses watermarks to protect his thesis rights, where his thesis is posted on his website?

20- The following sentence is considered an attack of type (Chose one correct answer):

Hi this is your bank. We need your password to fix your account as soon as possible!

Traffic Sniffing

Social Engineering

Password Guessing

Buffer Overflow

Viruses

Worms