بسم الله الرحمن الرحيم

University of SOHAG	Mid-term Exam 2022	Date: 10.05.2022
Faculty of Computers &	Computer System Security [324 CS]	3ʳᵈ Year Students
Artificial Intelligence	الفرقة الثالثة بكلية الحاسبات والذكاء الاصطناعي	Time duration: 2 hrs.

For each of the following questions, choose the most correct answer and shade the corresponding circle on the scantron card provided.

1) … is a measure that is designed to detect, prevent or recover a security attack.
   A) Security attack   B) Security service   C) Security mechanism   D) None of the above

2) Use Caesar Cipher to decipher the 'HQFUBSWHG WHAW'.
   A) ABANDONED LOCK   C) ABANDONED TEXT
   B) ENCRYPTED TEXT   D) ENCRYPTED LOCK

3) The Caesar Cipher is an example of … Cipher.
   A) Poly-alphabetic   B) Mono-alphabetic   C) Multi-alphabetic   D) Bi-alphabetic

4) In Playfair Cipher, a plaintext is encrypted … at a time.
   A) one letter   B) 2 letters   C) 3 letters   D) 4 or more letters

5) The MAC can be described as a … function.
   A) one-to-one   B) one-to-many   C) many-to-one   D) many-to-many

6) MAC stands for …
   A) Message authentication control   B) Message arbitrary connection
   C) Message authentication code   D) Message authentication cipher

7) Digital signature cannot provide … for the message.
   A) confidentiality   B) authentication   C) integrity   D) non-repudiation

8) Which of the following modifications in a message can be identified as an attack?
   A) content   B) sequence   C) timing   D) All of the above

9) Cryptography, a word with Greek origins, means …
   A) Corrupting Data   B) Secret Writing   C) Open Writing   D) Closed Writing

10) If an input key K = 1010000010 for the SDES algorithm, what is K2?
   A) 10100111   B) 01000011   C) 00100100   D) 01011010

Your answer:

No.	[A]	[B]	[C]	[D]
1.	○	○	○	○
2.	○	○	○	○
3.	○	○	○	○
4.	○	○	○	○
5.	○	○	○	○
6.	○	○	○	○
7.	○	○	○	○
8.	○	○	○	○
9.	○	○	○	○
10.	○	○	○	○