Central Administration for General Education

Educational Computer Material Development Department

**Under the patronage of His Excellency the Minister of Education,**

**Mr. Mohamed Abdel Latif**

# Weekly Assessments for Programming and Artificial Intelligence for General Education (First Secondary Grade)

**First Semester of the 2026/2027 Academic Year**

**Fourth Week**


**Prepared by:**

**Tamer Abdel Mohsen Mansour**

**Director of the Educational Computer Development Department**

**Review**

**Dr. Abeer Hamed Ibrahim**

**Computer, programming, AI, and financial culture consultant**

**Supervisor**

**Dr. Hala Abdel Salam Khafaji**

**Head of the Central Administration for General Education**

**And Supervisor of the Subject Consultants' Offices**

**Translated by: Enas Nour El.Deen**


nezakr.natega4dk.net

# Weekly assessment

## First test

**First:**

1. **Define the hexadecimal system and state the symbols used in it.**
2. **Convert the following binary number to hexadecimal:**
   $(11011011)_2$
3. **Convert the following hexadecimal number to decimal:**
   $(5A)_{16}$
4. **What is meant by a Character Code? What is meant by a Character Code System?**
5. **Briefly explain the characteristics of the Unicode character encoding system.**

**Second:**

**Choose the correct answer:**

1. **The hexadecimal digit corresponding to the binary number 1110 is:**

   **A) C**
   **B) D**
   **C) E**
   **D) F**

2. **Which of the following accommodates writing systems for countries around the world?**

   **A) ASCII**
   **B) Unicode**
   **C) Font**
   **D) Character Code**

nezakr.natega4dk.net

# Second test

**First:**

1. **Explain the steps for converting a binary number to hexadecimal.**
2. **Convert the following binary number to hexadecimal:**
   **$(11110110)_2$**
3. **Convert the following hexadecimal number to binary:**
   **$(E9)_{16}$**
4. **using the character code table, represent the character M in binary.**
5. **What is meant by each of the following?**
   - **Encoding**
   - **Decoding**

**Second:**

**Choose the correct answer:**

1. **The hexadecimal character code for A, according to the character code table, is:**

   **A) 41**
   **B) 4A**
   **C) A1**
   **D) 14**

2. **Which of the following represents the shape data of characters corresponding to character codes?**

   **A) ASCII**
   **B) Unicode**
   **C) Font**
   **D) Encoding**

nezakr.natega4dk.net

# Third test

**First:**

**1. Convert the following hexadecimal number to binary:**
**$(BB)_{16}$**

**2. Convert the following hexadecimal number to decimal:**
**$(7C)_{16}$**

**3. using the character code table, represent the character Y in binary.**

**4. Use hexadecimal to represent the character codes for the word MILK.**

**5. What is meant by Character Corruption?**

**Second:**

## Choose the correct answer:

1. **The number of character types that can be represented using** 1 Byte**, without using special techniques, is:**

   **A) 64**
   **B) 128**
   **C) 256**
   **D) 512**

2. **Which of the following is limited to English alphanumeric characters, symbols, and control characters?**

   **A) Unicode**
   **B) ASCII**
   **C) Font**
   **D) Encoding**

nezakr.natega4dk.net

## Classroom Assessment:

**First:**

**1. Convert the following hexadecimal number to binary:**
**$(F9)_{16}$**

**2. Convert the following hexadecimal number to decimal:**
**$(D3)_{16}$**

**3. What is the difference between a Character Code and a Font?**

**Second:**

**Choose the correct answer:**

1. **The hexadecimal character code for K is:**

   **A) 4A**
   **B) 4B**
   **C) 4C**
   **D) 4D**

2. **What is the term used for converting a text string into character codes?**

   **A) Decoding**
   **B) Encoding**
   **C) Font**
   **D) Corruption**

nezakr.natega4dk.net

## Homework Assignment:

**First:**

**1. Convert the following binary number to hexadecimal:**
**$(01110110)_2$**

**2. Convert the following hexadecimal number to decimal:**
**$(AB)_{16}$**

**3. What is the term used for representing a text string by character codes?**

**Second:**

## Choose the correct answer:

1. **Which of the following represents the rule for how characters and symbols are represented in binary or hexadecimal?**

   **A) Character Code System**
   **B) Font**
   **C) Character Corruption**
   **D) Byte**

2. **The number of character types that can be represented by** 2 Bytes **is:**

   **A) 256**
   **B) 1,024**
   **C) 32,768**
   **D) 65,536**

nezakr.natega4dk.net