



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)

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Fourth Week

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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

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

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

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

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