



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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Fifth Week

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Weekly assessment

First test

Put (✓) mark in front of the correct statement and (✗) mark in front of the wrong statement:

1. A character code is a unique numerical value assigned to each character or symbol. ()
2. The ASCII system supports all the world's languages, including Arabic. ()

Choose the correct answer:

- 3) The letter "H" in the string "Hello" is represented in the hexadecimal system by the symbol:
 - a) 65
 - b) 48
 - c) 6C
 - d) 6F
- 4) Which of the following is not a character encoding system?
 - a) ASCII
 - b) Unicode
 - c) UTF-8
 - d) BIOS

Second test

Put (✓) mark in front of the correct statement and (✗) mark in front of the wrong statement:

1. The Unicode standard aims to unify the representation of all characters in the world's languages. ()
2. Encoding is the process of converting numbers into readable characters. ()

Choose the correct answer:

3. Which of the following causes character corruption?
 - a) A mismatch between the encoding and decoding systems.
 - b) Weak processor speed.
 - c) Different font types.
 - d) Lack of random access memory (RAM).
4. In binary addition, the result of $1_{(2)} + 1_{(2)}$ is:
 - a) $0_{(2)}$ with a carry of 1
 - b) $10_{(2)}$
 - c) $2_{(2)}$
 - d) $11_{(2)}$

Third test

Put (✓) mark in front of the correct statement and (✗) mark in front of the wrong statement:

1. When adding two binary digits ($1 + 1$), the result is (10) in the binary system. ()
2. In binary subtraction, borrowing is done from the higher digit when the current value is not sufficient for subtraction. ()

Choose the correct answer:

3. The result of the binary subtraction $1010_{(2)} - 0110_{(2)}$ is:

a) $0010_{(2)}$

b) $0100_{(2)}$

c) $0110_{(2)}$

d) $1000_{(2)}$

4. To display characters on a computer screen, we need:

a) Font only.

b) Encoding only.

c) Encoding + Font together.

d) Hexadecimal system only.