



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

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

- 1) The hexadecimal system uses numbers from 0 to 9 and letters from A to F. ()
- 2) When converting from binary to hexadecimal, the binary number is divided into groups of 8 bits. ()

Choose the correct answer:

- 3) The binary number $10011010_{(2)}$ is equivalent to which in the hexadecimal system:
 - a) $9A_{(16)}$
 - b) $A9_{(16)}$
 - c) $19_{(16)}$
 - d) $91_{(16)}$
- 4) When converting the hexadecimal number $A4_{(16)}$ to binary, the result is:
 - a) $10011010_{(2)}$
 - b) $10100100_{(2)}$
 - c) $11001001_{(2)}$
 - d) $11100011_{(2)}$

Second test

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

- 1) ASCII code supports all languages, including Arabic. ()
- 2) Unicode standard was designed to collect character symbols from different world languages into one system. ()

Choose the correct answer:

- 3) Which of the following is an example of digital character encoding?
 - a) ASCII
 - b) Sans-serif
 - c) Semi-cursive
 - d) Font
- 4) One of the causes of character corruption is:
 - a) Weak processor speed.
 - b) Mismatch between encoding and decoding methods.
 - c) Low storage capacity.
 - d) Different font types.

Third test

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

- 1) Encoding is the process of converting digital data into readable characters. ()
- 2) Font is the shape data of characters corresponding to character symbols. ()

Choose the correct answer:

- 3) Which of the following elements are necessary to display characters on a computer screen?
 - a) Font only.
 - b) Encoding only.
 - c) Encoding + Font.
 - d) Hexadecimal system.
- 4) The letter "H" in the string "Hello" is represented in the hexadecimal system by the symbol:
 - a) 6C
 - b) 65
 - c) 48
 - d) 6F