Under the patronage of His Excellency the Minister of Education

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and the directives of

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Head of the Central Department of General Education

Evaluations and Assignments

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Third Preparatory Grade – Weekly Evaluation and Homework - Week (6)

Unit 1: Artificial Intelligence and Programming Languages

(Review of what preceded)

Weekly Evaluation

First Test

Answer the following questions:

1) Define computational thinking.
2) What is meant by deep learning?

Choose the correct answer from the following options.

What is the scientific term for focusing on important information and excluding unnecessary details?

a. Algorithm.
b. Problem analysis.
c. Pattern recognition.
d. Abstraction.

Second test

Answer the following questions:

1) State the basic steps of computational thinking skills when facing a new problem.
2) Define "algorithm," and briefly explain the purpose of using sorting algorithms in programming.

Choose the correct answer from the following options.

What is the correct output of the following code?

```
num = 50
if num % 2 == 0:
    print("Even")
else:
   print("Odd")
```

a. Odd.
b. Even.
c. Program error.
d. Prints nothing.

Third Test

Answer the following questions:

1) What is the difference between traditional algorithms and artificial intelligence algorithms?

2) How can you use “in” to check if a specific character exists in a string ?

Choose the correct answer from the following options.

What is the function used to add an element to the end of a list?

1) add()
2) append()
3) insert()
4) push()

Class Evaluation

Write and execute a simple Python program that uses a loop to print the elements of the list ["X", "Y", "Z"], it.

Homework

Answer the following questions:

1) Explain why it is preferable to use the float data type instead of int when calculating an average.

2) Write a simple Python program that uses a for loop to print each character in the word "Egypt" on a separate line.

Choose the correct answer from the following options.

In the code (sum += i), what does this operation mean in programming?

1) sum = sum – i
2) sum = sum + i
3) sum = i + 1
4) sum = i