Ministry of Education and Technical Education
Central Administration for Curriculum Development
General Administration for the development of Educational Computer

Under the patronage of His Excellency the Minister of Education

Mr. Mohamed Abdel Latif

and the directives of

Dr. Hala Abdel Salam

Head of the Central Department of General Education

Evaluations and Assignments

Information and Communication Technology for the Third Preparatory Grade

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Third Preparatory Grade – Weekly Evaluation and Homework

Week (3) Unit 1: Artificial Intelligence and Programming Languages

Lesson 2: (Artificial Intelligence Algorithms)

Weekly Evaluation

First Test

Answer the following questions:

1- Define "algorithm" and briefly explain the purpose of using sorting algorithms in programming.

2- Write Python code for a sequential algorithm that takes a username as input and prints it preceded by the word "Hello".

Put (√) in front of the correct statement or (x) in front of the incorrect statement

The oval shape in a flowchart represents input and output operations. ( )

Second Test

Answer the following questions:

1- Compare traditional algorithms and artificial intelligence algorithms in terms of their mode of operation (fixed steps versus learning from data).

2- Explain the concept of a conditional algorithm using an "IF" statement to determine whether a number is positive or negative.

Place a checkmark (√) next to the correct statement or an (×) next to the incorrect statement.

In a flowchart, the rectangle represents arithmetic operations or fixed steps. ( )

Third Test

Answer the following questions:

1. What is meant by the concept of "Machine Learning"? Provide an illustrative example.

2. Explain how to implement a loop algorithm to print the word "Hello" five times in Python.

Place a checkmark (√) next to the correct statement or an (×) next to the incorrect statement.

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An algorithm that relies on examining list elements to locate a specific element is a sorting algorithm. ( )

Class Evaluation

Answer the following questions:

1. **List the characteristics of conditional algorithms and provide an example.**
2. **Explain the difference between search algorithms and sorting algorithms.**

Homework

Answer the following questions:

1. What is the primary function of the "diamond" shape in flowcharts?

2.Why is using a loop better than manually writing commands multiple times?

Choose the correct answer from the following options.

What is the correct output of the following code?

```
num = 4
if num % 2 == 0:
   print(“Even”)
else:
   print(“Odd”)
```

a. Odd.

b. Even.

c. Program error.

d. It prints nothing.

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