



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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Tenth Eleventh Week

Prepared by:

**Tamer Abdel Mohsen Mansour**

Director of the Educational Computer Development Department

Review

**Dr. Abeer Hamed Ibrahim**

Educational Computer Development Consultant

**Wassim Salah eldeen Elmanzalawy**

Director of the Educational Computer Development Department

Supervisor

**Dr. Hala Abdel Salam Khafaji**

Head of the Central Administration for General Education

Translated by / **Enas Nour El.Deen**

## **Weekly Assessment:**

### **First Test**

1. What is the output of a NOT circuit if the input = 1?
  - a. 0
  - b. 1
  - c. 2
  - d. Nothing
  
2. In the truth table for an OR gate, when the inputs are (0 and 0), the output is:
  - a. 0
  - b. 1
  - c. Depends on the gate
  - d. Undefined
  
3. What is the logical symbol for an AND gate?
  - a.  $\vee$
  - b.  $\wedge$
  - c.  $\neg$
  - d.  $+$
  
4. In a Full Adder circuit, the symbol C refers to:
  - a. Carry
  - b. Sum
  - c. A third input
  - d. Power line

## **Second Test**

- 1. The function of a truth table is to:**
  - a. Show all possible input and output combinations**
  - b. Save programming commands**
  - c. Analyze images**
  - d. Display only binary values**
  
- 2. The circuit that outputs the opposite of the input is called:**
  - a. OR**
  - b. NOT**
  - c. AND**
  - d. XOR**
  
- 3. A Full Adder circuit handles:**
  - a. Only one bit**
  - b. Two bits and three inputs**
  - c. Two bits and only two inputs**
  - d. Four inputs**
  
- 4. When adding 1 and 1 in the binary system, the result is:**
  - a. 0**
  - b. 1**
  - c. 10**
  - d. 11**

## **Third Test**

- 1. The function of a Half Adder circuit is to calculate:**
  - a. The Sum only**
  - b. Both the Sum and the Carry**
  - c. Subtraction**
  - d. Division**
  
- 2. The logic circuit that outputs 1 only when the inputs are different is called:**
  - a. XOR**
  - b. OR**
  - c. AND**
  - d. NOR**
  
- 3. Which of the following describes a Full Adder?**
  - a. It includes only two inputs**
  - b. It includes 3 inputs and produces two outputs (Sum and Carry)**
  - c. It produces only one output**
  - d. It does not contain an XOR gate**
  
- 4. In logic circuits, the value (1) means:**
  - a. False**
  - b. True**
  - c. Null**
  - d. Off**