

**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 Second Preparatory Grade
Preparation Committee**

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Second Preparatory Grade – Weekly Evaluation and Homework – Week (4)

Weekly Evaluation

First Test

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

1. The artificial neuron tries to imitate the function of neurons in the human brain. ()
2. The weights in the neuron do not affect the final decision. ()

Second Test

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

1. Bias helps the neuron to give results even in the absence of inputs. ()
2. The activation function is responsible for executing the final decision of the neuron.()

Third Test

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

1. Weights are always fixed values that do not change. ()
2. Inputs can be images, sounds, or numbers. ()

Class Evaluation

Dear student: Discuss with your teacher and classmates after finishing the following lesson:-

- 1- How artificial intelligence techniques work.
- 2- How simple models can be designed for some processes understood by artificial intelligence.



Homework

Choose the appropriate answer to complete each of the following statements:

1- What is an artificial neuron?

- A- Program to run games.
- B- Unit that tries to imitate human thinking.
- C- Part of computer memory.
- D- Real biological cell.

2- The Sigmoid function works as?

- A- Negative number.
- B- Number between 0 and 1 (probability).
- C- Random number.
- D- Number greater than 100.