Assignment 2

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2030-02-13, 23:59 IST.

1. 

- Logical
- Continuous
- Differentiable
- All of these

No, the answer is incorrect.

Accepted Answers: Logical, Continuous, Differentiable

2. What is the number of Boolean functions that can be designed from 3 inputs?

- 2
- 2
- 2
- 2

No, the answer is incorrect.

Accepted Answers: 2

3. In sigmoid (logistic) function where \( f(x) = \frac{1}{1 + e^{-x}} \), then sigmoid value is equal to

- 0
- 1
- None of these

No, the answer is incorrect.

Accepted Answers: 0

4. One form of sigmoid function is logistic function

- True
- False

Yes, the answer is correct.

Accepted Answers: True

5. In sigmoid (logistic) function when \( f(x) = \frac{1}{1 + e^{-x}} \), then sigmoid value is equal to

- 0
- 1
- None of these

Yes, the answer is correct.

Accepted Answers: 1

6. Value range of sigmoid function are

- \([-1, 1]\]
- \([-\infty, \infty]\)
- None of these

Yes, the answer is correct.

Accepted Answers: \([-\infty, \infty]\)

7. Consider the following figure, identify the function.

- Sigmoid
- Perceptron
- None of these

No, the answer is incorrect.

Accepted Answers: Sigmoid

8. A __________ with a single hidden layer can be used to represent any Boolean function precisely.

- Multilayer network of sigmoid functions
- Multilayer network of perceptron
- None of these

Yes, the answer is correct.

Accepted Answers: Multilayer network of sigmoid functions

9. In logistic function, when we increase the value of \( w \), the function becomes

- Step function
- Sigmoid function
- Quadratic function
- None of these

Yes, the answer is correct.

Accepted Answers: Sigmoid function

10. Which parameter(s) need to be learned in minimizing objective function in supervised learning?

- Only weights
- Only bias
- Both weights and bias
- Learning rate
- None of these

Yes, the answer is correct.

Accepted Answers: Both weights and bias