X


(https://swayam.gov.in)


(https://swayam.gov.in/nc_details/NPTEL)

regentishamitha@gmail.com

Assignment 1

The due date for submitting this assignment has passed.

Due on 2021-02-03, 23:59 IST.

Assignment submitted on 2021-02-03, 22:54 IST

1) The Reticular Theory proposed by Joseph VonGerlach states that our nervous system is a single continuous network as opposed to a network of many discrete cells. ***1 point***

- (•) True
- ( ) False

Yes, the answer is correct.
Score: 1
Accepted Answers:
True

2) The very large computations of Deep Neural Network require GPUs as opposed to CPUs. ***1 point***

- (•) True
- ( ) False

Yes, the answer is correct.
Score: 1
Accepted Answers:
True

3) NeoCognition is a technique used for ***1 point***

- ( ) Handwritten character recognition
- ( ) Image recognition

- Pattern recognition
- Both Handwritten character recognition and pattern recognition

Yes, the answer is correct.
Score: 1
Accepted Answers:
Both Handwritten character recognition and pattern recognition

4) Long Short-Term Memory (LSTMs) can solve complex long time lag tasks. ***1 point***

- True
- False

Yes, the answer is correct.
Score: 1
Accepted Answers:
True

5) The problems faced while working with DNN are ***1 point***

- Numerical Inability
- Sharp Minima
- Non robustness
- High Capacity
- All of these

Yes, the answer is correct.
Score: 1
Accepted Answers:
All of these

6) S_1 and S_2 are two statements related to Perceptron. ***0 points***

S_1: According to Frank Rosenberg, a Perceptron may eventually be able to learn, make decisions and even translate languages.

S_2: Minsky and Papert said that it is possible that a Perceptron cannot handle some very simple functions like XOR.

Choose the correct option with respect to S_1 and S_2.

- S_1 is true and S_2 is false
- S_1 is false and S_2 is true
- Both S_1 and S_2 are true
- Both S_1 and S_2 are false

Yes, the answer is correct.
Score: 0
Accepted Answers:
Both S_1 and S_2 are true

7) Which of the following is/are Deep learning-based solution/s? ***1 point***

- Feed Forward Neural Networks

- Convolutional Neural Networks
- Recurrent Neural Networks
- All of these

Yes, the answer is correct.
Score: 1

Accepted Answers:
All of these

8) Dendrite is used to ***1 point***

- Process the information
- Receive signals from other neurons
- Transmits the outputs of the neuron
- All of these

Yes, the answer is correct.
Score: 1

Accepted Answers:
Receive signals from other neurons

9) To implement linearly separable functions ***1 point***

- Single perceptron can be used
- Double perceptron can be used
- Either single or double perceptron can be used
- None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
Either single or double perceptron can be used

10) Which of the following is not true regarding McCulloch Pitts neuron? ***1 point***

- It is a simplified computational model of the neuron
- ‘g’ collects all the inputs
- ‘f’ takes a decision based on the aggregation
- Inhibitory input does not affect the output of the neuron

Yes, the answer is correct.
Score: 1

Accepted Answers:
Inhibitory input does not affect the output of the neuron