Unit 10 - Week 8

Week 8 Assignment 8

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

Due on 2020-03-25, 23:59 IST.

1) For the same size of training data as input, the fastest learning techniques is *1 point*

a. Supervised training with gradient descent error correction.
b. Supervised training with stochastic method.
c. Supervised training without error calculation.
d. Supervised training with Hebbian method.

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

2) Hebbian learning is a form of *1 point*

a. Supervised Learning
b. Unsupervised learning
c. Reinforced learning
d. Stochastic learning

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

3) In case of layer calculation, the maximum time involved in *1 point*

a. Output layer computation.
b. Hidden layer computation.
c. Equal effort in each layer.
d. Input layer computation.

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

4) The **Back Propagation Learning** algorithm is used to train *1 point*

a. a single layer feed forward neural network only
b. a multiple layer feed forward neural network only
c. a recurrent neural network only
d. any artificial neural network

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

5) In which learning method in the following, those neurons which responds strongly to input stimuli have their weights updated *1 point*

a. Competitive learning
b. Stochastic Learning
c. Hebbian Leaning
d. Gradient Descent Learning

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

6) Training Perceptron is based on *1 point*

a. Supervised learning technique.
b. Unsupervised learning
c. Reinforced learning
d. Stochastic learning

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

7) A batch mode of training is generally implemented through the ______________________ in error calculation *1 point*

a. Minimization of median square error
b. Maximization of median square error
c. Maximization of mean square error
d. Minimization of mean square error

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

8) What is the number of matrix data involved in a simple recurrent neural network with a single hidden layer? *1 point*

a. 5
b. 7
c. 3
d. 6

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

9) Which of the following is not a hybrid system? *1 point*

a. Embedded hybrid system
b. Sequential hybrid system
c. Auxiliary hybrid system
d. Parallel hybrid system

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

10) In which of the following, one technology calls the other technology as subroutine to process or manipulate information needed *1 point*

a. Embedded hybrid system
b. Sequential hybrid system
c. Auxiliary hybrid system
d. Parallel hybrid system

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

11) Fuzzy – Genetic Hybrid system is a *1 point*

a. Fuzzy logic in parallel with the Genetic algorithm
b. Fuzzy logic controlled Genetic algorithm
c. Genetic algorithm controlled Fuzzy logic
d. None of the above

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

12) In Supervised learning $-ve$ sign is used to signify the fact that if $\frac{\partial E}{\partial V} > 0$, then we have to *1 point*

a. Increase V
b. Decrease V
c. Increase E
d. Decrease E

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

13) Both fuzzy logic and artificial neural network are soft computing techniques because, *1 point*

a. Both give precise and accurate results.
b. Artificial neural network gives accurate result but fuzzy logic does not.
c. In each, no precise mathematical model of the problem is required.
d. Fuzzy gives exact result but artificial neural network does not.

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

14) In supervised learning, training set of data includes *1 point*

a. Input
b. Output
c. Both input and output
d. None

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

15) Given a training data $< X; Y >$, the number of neurons in the input and output layers are *1 point*

a. $|X|$ and $|Y|$
b. $|x|$ and $|y|$ where $x \leq X, y \in Y$
c. l and n where $l, n \geq 1$ and are with arbitrary values.
d. $l \geq |x|, n \geq |y|$ where $x \in X, y \in Y$

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.