Assignment 6

The due date for submitting this assignment has passed. Due on 2019-04-10, 23:59 IST.
As per our records you have not submitted this assignment.

1) In order to capture dynamics of a highly dynamic process, we should go for
   b. Radial basis function neural network.
   c. Recurrent neural network.
   d. Mamdani approach of fuzzy reasoning tool.

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

2) Which one of the following statements is FALSE?
   a. In Elman network, feedbacks are taken from the hidden layer.
   b. In Jordan network, feedbacks are taken from the output layer.
   c. In recurrent neural networks, internal inputs are generated due to the feed
      of layer(s).
   d. In recurrent neural networks, external inputs have got no influence on the
      internal inputs.

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
Which one of the following statements is not applicable to Self-Organizing Map (SOM)?

a. SOM is a dimensionality reduction technique.
b. SOM can be used as a clustering tool.
c. SOM uses the principle of supervised learning.
d. SOM uses the principle of un-supervised learning.

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

4)
Which one of the following statements is FALSE?

a. In SOM, the aim of competition is to declare a winner.
b. In SOM, the synaptic weights are updated through the principle of cooperat
c. SOM is a distance-preserving tool.
d. SOM is a topology-preserving tool.

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

5)
In order to implement ‘cooperation’ in SOM, let us assume that the topological neighborhood of excited neurons is expressed using a Gaussian distribution. As iteration proceeds, its standard deviation value (σ) is allowed to

a. increase.
b. decrease.
c. be remain constant.
d. reach zero value.

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d)
Counter-Propagation Neural Network (CPNN) uses the principle of

a. supervised learning only.
b. un-supervised learning only.
c. both supervised as well as un-supervised learning.
d. neither supervised nor un-supervised learning.

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

7) Counter-Propagation Neural Network (CPNN) consists of

a. two in-star models.
b. two out-star models.
c. one in-star and another out-star models.
d. either in-star or out-star model.

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

8) Which one of the following statements is TRUE?

a. Counter-Propagation Neural Network (CPNN) is faster than Back-Propagation Neural Network (BPNN) but inferior to BPNN in mapping applications.
b. CPNN is faster than BPNN and superior to BPNN in mapping applications.
c. CPNN is slower than BPNN and inferior to BPNN in mapping applications.
d. CPNN is slower than BPNN but superior to BPNN in mapping applications.

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

9) A Recurrent Neural Network (RNN) has

a. feed-forward connection only.
b. feed-back connection only.
c. both feed-forward and feed-back connections.
d. neither feed-forward nor feed-back connection.
10) Self-Organizing Map (SOM) is a
   a. 3-layers network.
   b. 2-layers network.
   c. single layer network.
   d. 4-layers network.

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

   (a)
   (b)
   (c)
   (d)

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

   (a)
   (b)
   (c)
   (d)