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**Started on** Wednesday, 13 April 2022, 6:03 PM

**State** Finished

**Completed on** Wednesday, 13 April 2022, 6:31 PM

**Time taken** 28 mins 3 secs

**Grade** **20.00** out of 30.00 (67%)

### Question 1

Correct

Mark 2.00 out of 2.00

What does ART stand for?

- ☐ a. Automatic Resonance Theory
- ☐ b. None
- ☒ c. Adaptive Resonance Theory
- ☐ d. Artificial Resonance Theory



The correct answer is: Adaptive Resonance Theory

### Question 2

Correct

Mark 2.00 out of 2.00

What is competitive learning?

- ☐ a. none
- ☒ b. learning laws which modulate difference between synaptic weight & output signal
- ☐ c. learning laws which modulate difference between synaptic weight & activation value
- ☐ d. learning laws which modulate difference between actual output & desired output



The correct answer is: learning laws which modulate difference between synaptic weight & output signal

**Question 3**

Incorrect

Mark 0.00 out of 2.00

The general idea of boosting also encompasses building multiple \_\_\_\_\_ learners to contribute to the final result

- ☐ a. strong
- ☐ b. weak
- ☒ c. efficient
- ☐ d. Bagging



The correct answer is: weak

**Question 4**

Correct

Mark 2.00 out of 2.00

Which layer has feedback weights in competitive neural networks?

- ☐ a. input layer
- ☒ b. Second Layer
- ☐ c. both input and second layer



The correct answer is: Second Layer

**Question 5**

Incorrect

Mark 0.00 out of 2.00

Self-Organizing Maps(SOMs) are a form of unsupervised neural network that are used for **visualization and exploratory data analysis of \_\_\_\_\_ datasets**

- ☐ a. None of the above
- ☒ b. low dimensional
- ☐ c. high dimensional
- ☐ d. Both



The correct answer is: high dimensional

**Question 6**

Correct

Mark 2.00 out of 2.00

Which of the following is an application of reinforcement learning?

- ☐ a. Image Classification
- ☐ b. Topic Modeling
- ☒ c. Recommendation System
- ☐ d. Pattern Recognition



The correct answer is: Recommendation System

**Question 7**

Correct

Mark 2.00 out of 2.00

How are input layer units connected to second layer in competitive learning networks?

- ☒ a. Feed Forward manner
- ☐ b. Feed forward and feedback
- ☐ c. none
- ☐ d. Feed Backward manner



The correct answer is: Feed Forward manner

**Question 8**

Correct

Mark 2.00 out of 2.00

If a competitive network can perform feature mapping then what is that network can be called?

- ☐ a. self excitatory
- ☒ b. self organization
- ☐ c. self inhibitory
- ☐ d. None



The correct answer is: self organization

**Question 9**

Incorrect

Mark 0.00 out of 2.00

What is the advantage of Bootstrap sampling over sampling without replacement?

- ☐ a. Bootstrapping simulates the dataset as a distribution better.
- ☐ b. Bootstrapping samples have less variance.
- ☒ c. Bootstrapping only selects distinct data points.



The correct answer is: Bootstrapping simulates the dataset as a distribution better.

**Question 10**

Incorrect

Mark 0.00 out of 2.00

An Ensemble is often faster or slower than a single-model method?

- ☐ a. Slower
- ☒ b. Faster



The correct answer is: Slower

**Question 11**

Correct

Mark 2.00 out of 2.00

The main benefit of bagging is to reduce the \_\_\_\_\_ of the final model while keeping the bias almost uninfluenced.

- ☒ a. Variance
- ☐ b. Accuracy
- ☐ c. None
- ☐ d. Fitness



The correct answer is: Variance

**Question 12**

Correct

Mark 2.00 out of 2.00

Which of the following is true about reinforcement learning?

- ☒ a. All of the mentioned
- ☐ b. The agent gets rewards or penalty according to the action
- ☐ c. It's an online learning
- ☐ d. The target of an agent is to maximize the rewards



The correct answer is: All of the mentioned

**Question 13**

Correct

Mark 2.00 out of 2.00

Reinforcement learning is-

- ☐ a. Supervised Learning
- ☐ b. None
- ☒ c. Award Based Learning
- ☐ d. Unsupervised learning



The correct answer is: Award Based Learning

**Question 14**

Incorrect

Mark 0.00 out of 2.00

ART is made to tackle?

- ☐ a. hard problem
- ☒ b. none
- ☐ c. Stability problem
- ☐ d. Storage problem



The correct answer is: Stability problem

**Question 15**

Correct

Mark 2.00 out of 2.00

One of the advantage of Boosting is that it can perform well even on \_\_\_\_ datasets

- ☒ a. Imbalanced
- ☐ b. All of the mentioned
- ☐ c. neutral
- ☐ d. balanced



The correct answer is: Imbalanced

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