

Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	13
Blank Answer	2
Basic Correct	11
Optional Correct	0

1. ★★ ☆ Which search method takes less memory

- ☒ (A) Depth-First search
- ☐ (B) Breadth-First search ✓
- ☐ (C) Linear Search
- ☐ (D) Optimal Search

2. ★★ ☆ Which condition is used to influence a variable directly by all the others?

- ☐ (A) Partially connected
- ☒ (B) Fully connected ✓
- ☐ (C) Local connected
- ☐ (D) None of the mentioned

3. ★★ ☆ Which algorithm is used for solving temporal probabilistic reasoning?

- ☐ (A) Hill-climbing search
- ☒ (B) Hidden markov model ✓
- ☐ (C) Depth-first search
- ☐ (D) Breadth-first search

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4. ★ Where does the Hidden Markov Model is used?

- ☒ (A) Speech recognition ✓
- ☐ (B) Understanding of real world
- ☐ (C) Both Speech recognition & Understanding of real world
- ☐ (D) None of the mentioned

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5. ★ Which data structure is used to give better heuristic estimates?

- ☐ (A) Forwards state-space
- ☐ (B) Backward state-space
- ☒ (C) Planning graph algorithm ✓
- ☐ (D) None of the mentioned

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6. ☆ How many types of recognition are there in artificial intelligence

- ☐ (A) 1
- ☐ (B) 2
- ☒ (C) 3 ✓
- ☐ (D) 4

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7. ★ How the distance between two shapes can be defined?

- ☒ (A) Weighted sum of the shape ✓
- ☐ (B) Size of the shape
- ☐ (C) Shape context
- ☐ (D) None of the mentioned

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8. ★ Which of the following machine learning algorithm can be used for imputing missing values of both categorical and continuous variables?

- ☒ (A) K-NN ✓
- ☐ (B) Linear Regression
- ☐ (C) Logistic Regression
- ☐ (D)

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9. ☆ In k-NN it is very likely to overfit due to the curse of dimensionality. Which of the following option would you consider to handle such problem?

- ☐ (A) Dimensionality
- ☐ (B) Feature selection
- ☒ (C) A and B ✓
- ☐ (D) None of these

10. ★★ Which of the following statements is true for k-NN classifiers?

- ☐ (A) The classification accuracy is better with larger values of k
- ☐ (B) The decision boundary is smoother with smaller values of k
- ☐ (C) The decision boundary is linear
- ☒ (D) k-NN does not require an explicit training step ✓

11. ★★ In which of the following scenario a gain ratio is preferred over Information Gain?

- ☒ (A) When a categorical variable has very large number of category ✓
- ☐ (B) When a categorical variable has very small number of category
- ☐ (C) Number of categories is the not the reason
- ☐ (D) None of these

12. ★★ A perceptron is:

- ☒ (A) a single layer feed-forward neural network with pre-processing ✓
- ☐ (B) an auto-associative neural network
- ☐ (C) a double layer auto-associative neural network
- ☐ (D) a neural network that contains feedback

13. ★★ A 4-input neuron has weights 1, 2, 3 and 4. The transfer function is linear with the constant of proportionality being equal to 2. The inputs are 4, 10, 5 and 20 respectively. The output will be:

- ☐ (A) 238 ✓
- ☐ (B) 76
- ☐ (C) 119
- ☐ (D) 123

14. ★★ What is true regarding backpropagation rule?

- ☒ (A) it is a feedback neural network
- ☐ (B) actual output is determined by computing the outputs of units for each hidden layer ✓
- ☐ (C) hidden layers output is not all important, they are only meant for supporting input

and output layers

☐ (D) none of the mentioned

15.    What consist of boltzman machine?

☐ (A) fully connected network with both hidden and visible units

☐ (B) asynchronous operation

☐ (C) stochastic update

☐ (D) all of the mentioned ✓