

Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
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 algorithm is used for solving temporal probabilistic reasoning?**

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

3.  **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

4. ★★ How many types of recognition are there in artificial intelligence

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

5. ★★ Which provides a framework for studying object recognition?

- ☐ (A) Learning
- ☐ (B) Unsupervised learning
- ☒ (C) Supervised learning ✓
- ☐ (D) None of the mentioned

6. ★★ 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

7. ★★ 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)

8. ★★ 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

9. ★★ 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 ✓

10. ★ Which of the following algorithm doesn't use learning Rate as one of its hyperparameter?

- ☒ (A) Random Forest ✓
- ☐ (B) Gradient Boosting
- ☐ (C) AdaBoost
- ☐ (D)

11. ★ When you use the boosting algorithm you always consider the weak learners. Which of the following is the main reason for having weak learners?

- ☒ (A) To prevent overfitting ✓
- ☐ (B) To prevent under fitting
- ☐ (C) To prevent overfitting and underfitting
- ☐ (D) None of these

12. ★ 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

13. ★ 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

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14. ☆ 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 ✓

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15. ☆ One of the main challenge/s of NLP Is _

- ☐ (A) Handling Ambiguity of Sentences ✓
- ☐ (B) Handling Tokenization
- ☐ (C) Handling POS-Tagging
- ☒ (D) All of the mentioned