

Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	12
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. ☆ How many types of recognition are there in artificial intelligence

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

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6. ☆ Which object recognition process is an error-prone process

- ☒ (A) Bottom-up segmentation ✓
- ☐ (B) Top-down segmentation
- ☐ (C) Both Bottom-up & Top-down segmentation
- ☐ (D) None of the mentioned

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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. ☆ 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. ★★ 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

11. ★★ 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

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

14. ★★ What are the general tasks that are performed with backpropagation algorithm?

- ☐ (A) pattern mapping

- ☐ (B) function approximation
- ☐ (C) prediction
- ☒ (D) all of the mentioned ✓

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