

Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	13
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.   **What does the bayesian network provides?**

- ☒ (A) Complete description of the domain ✓
- ☐ (B) Partial description of the domain
- ☐ (C) Complete description of the problem
- ☐ (D) None of the mentioned

3.   **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

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4. ★ 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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5. ★ 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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6. ☆ How many types of recognition are there in artificial intelligence

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

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7. ☆ 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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8. ★ 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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9. ★ 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)

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. ★★ 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 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 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 ✓

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