

## Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	8
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. ★★☆☆ 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

★  
★  
4. ☆ Web Crawler is a/an

- ☒ (A) Intelligent goal-based agent ✓
- ☐ (B) Problem-solving agent
- ☐ (C) Simple reflex agent
- ☐ (D) Model based agent

★  
★  
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

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

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

★  
★  
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

★  
★  
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

★  
★  
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. ★★ 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 the objective of backpropagation algorithm?

- ☐ (A) to develop learning algorithm for multilayer feedforward neural network
- ☐ (B) to develop learning algorithm for single layer feedforward neural network
- ☒ (C) to develop learning algorithm for multilayer feedforward neural network, so that network can be trained to capture the mapping implicitly ✓
- ☐ (D) none of the mentioned

14. ★★  $p(s=1|x) = 1/(1+\exp(-x/T))$ , where 's' is the output given the activation 'x' is a?

- ☐ (A) hopfield network

- ☒ (B) sigma network
- ☐ (C) stochastic network ✓
- ☐ (D) none 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