

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.  **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. ☆ Web Crawler is a/an

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

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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

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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)

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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

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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. ★ 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. ★ $p(s=1|x) = 1/(1+\exp(-x/T))$, 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

14. ★ What should be the aim of training procedure in boltzman machine of feedback

networks?

- ☐ (A) to capture inputs
- ☐ (B) to feedback the captured outputs
- ☐ (C) to capture the behaviour of system
- ☒ (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