

Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	14
Blank Answer	1
Basic Correct	12
Optional Correct	0

1. ★★ 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

2. ★★ 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

3. ★★ 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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4. ★ 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

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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 provides a framework for studying object recognition?

- ☐ (A) Learning
- ☐ (B) Unsupervised learning
- ☒ (C) Supervised learning ✓
- ☐ (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. ☆ 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 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. ★ $p(s=1|x) = 1/(1+\exp(-x/T))$, 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