

Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	11
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. ★ 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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7. ☆ How many types of recognition are there in artificial intelligence

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

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8. ☆ 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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9. ☆ What can't be done in the semantic interpretation?

- ☐ (A) Logical term
- ☐ (B) Complete logical sentence

☒ (C) Both Logical term & Complete logical sentence ✓

☐ (D) None of the mentioned

10. ★★ 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)

11. ★★ 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 ✓

12. ★★ 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

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 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

15.    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 ✓