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# Technical Test Result

| DESCRIPTION | STATUS |
|---|---|
| Attempted Questions | 15 |
| Blank Answer | 0 |
| Basic Correct | 9 |
| 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. 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

**3. How many types of recognition are there in artificial intelligence**

- ○ (A) 1
- ○ (B) 2
- ◉ (C) 3 ✔
- ○ (D) 4

**4. 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

**5. 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

**6. What kind of interpretation is done by adding context-dependant information?**

◉ (A) Semantic
○ (B) Syntactic
○ (C) Pragmatic ✔
○ (D) None of the mentioned

**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)

**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

**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 uses learning Rate as of 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. 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

**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