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Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	13
Blank Answer	2
Basic Correct	10
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. 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

4. How many types of recognition are there in artificial intelligence

○ (A) 1
○ (B) 2
◉ (C) 3 ✔
○ (D) 4

5. 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

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

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. 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)

9. How to select best hyperparameters in tree based models

○ (A) Measure performance over training data
○ (B) Measure performance over validation data ✔
◉ (C) Both of these
○ (D) None of these

10. 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

11. 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

12. 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

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 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 ✔

15. Morphological Segmentation

○ (A) Does Discourse Analysis
○ (B) Separate words into individual morphemes and identify the class of the morphemes ✔
○ (C) Is an extension of propositional logic
○ (D) None of the mentioned