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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 serach ✔
- (C) Linear Search
- (D) Optimal Search

2. How does the state of the process is described in HMM?

- (A) Literal
- (B) Single random variable
- (C) Single discrete random variable ✔
- (D) None of the mentioned

3. 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

4. Web Crawler is a/an

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

5. 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

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. 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. 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

11. 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

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. 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