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Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	11
Optional Correct	0

1. Where does the bayes rule can be used

- ○ (A) Solving queries
- ○ (B) Increasing complexity
- ○ (C) Decreasing complexity
- ◉ (D) Answering probabilistic query ✔

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. 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. 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)

7. 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

8. 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 ✔

9. 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)

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. 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. 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 ✔