Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	12
Optional Correct	0

1. Which search method takes less memory

○ (A) Depth-First search
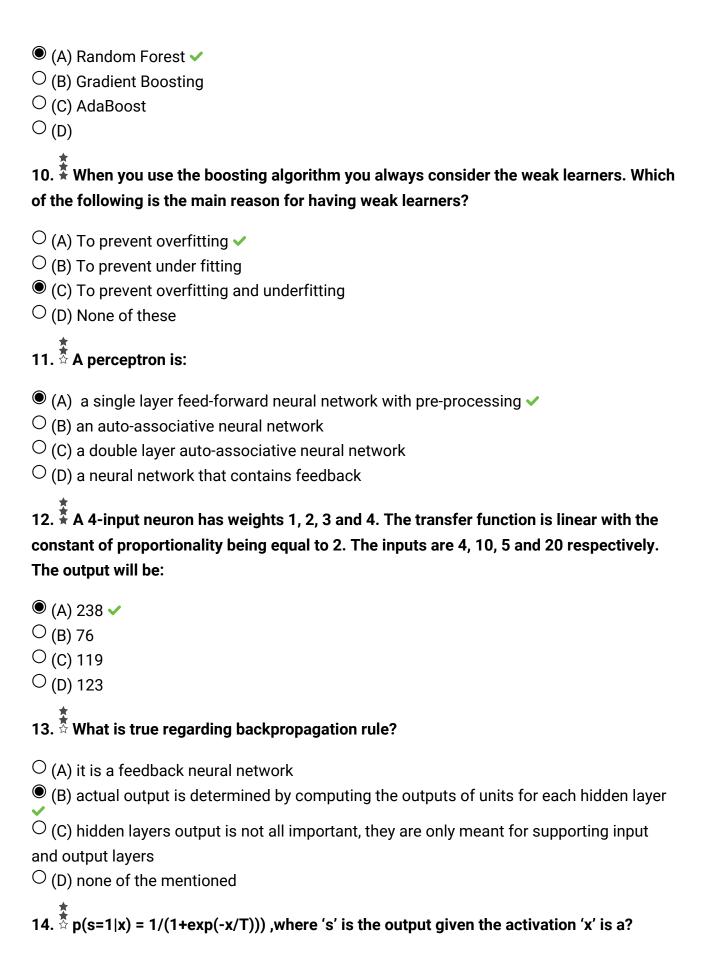○ (B) Breadth-First serach ✔
◉ (C) Linear Search
○ (D) Optimal Search

2. 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

4. ★ **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

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. ★ **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

8. ★ **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)

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. ★ 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