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. 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

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

○ (A) 1
○ (B) 2
◉ (C) 3 ✔
○ (D) 4

6. 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

7. 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

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 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 are the general tasks that are performed with backpropagation algorithm?

○ (A) pattern mapping

○ (B) function approximation

○ (C) prediction

◉ (D) all 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