Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	13
Optional Correct	0

1. 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

2. 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

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. ⭐ **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. ⭐ **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. ⭐ **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

10. ☆ **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

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. ☆ **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. ⭐ 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