Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	14
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. 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. The main task of a problem-solving agent is

○ (A) Solve the given problem and reach to goal
○ (B) To find out which sequence of action will get it to the goal state
◉ (C) All of the mentioned ✔
○ (D) None of the mentioned

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. 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. 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

9. 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

10. ⭐ 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

11. ⭐ 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

12. ⭐ 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

13. ⭐ 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 ✔

14. ⭐ 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

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