

- c) All of these
d) None of these
- (x) How many types of agents are there in artificial intelligence?
a) 1
b) 2
c) 3
d) 4
- (xi) What is a heuristic function?
a) A function to solve mathematical problems
b) A function which takes parameters of type string and returns an integer value
c) A function whose return type is nothing
d) A function that maps from problem state descriptions to measures of desirability.
- (xii) _____ number of informed search method are there in Artificial Intelligence.
a) 4
b) 3
c) 2
d) 1
- (xiii) What is the other name of informed search strategy?
a) Simple search
b) Heuristic search
c) Online search
d) None of the mentioned
- (xiv) How many things are concerned in the design of a learning element?
a) 1
b) 2
c) 3
d) 4
- (xv) How many types are there in machine learning?
a) 1
b) 2
c) 3
d) 4

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Group-B

(Short Answer Type Questions)

3 x 5=15

2. Write the difference between Static and Dynamic Environment (3)
3. Explain the KNN Algorithm (3)
4. What are Regular Expressions? (3)
5. What is a Neural Network? (3)
6. Identify the between Fully observable & Partially Observable. (3)

OR

Briefly describe different types of intelligent agents in AI (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Classify Supervised and unsupervised machine learning. (5)
8. Explain the applications area of Deep learning. Explain with a proper diagram (5)
9. Write down the steps of the A* search algorithm (5)
10. Explain Hill Climbing Algorithm in AI and give an example. (5)
11. What is NLP? What are the various components of NLP? (5)
12. Define how Artificial intelligence, Machine Learning, and Deep Learning differ from each other. (5)

OR

What is the need for Artificial Intelligence? (5)
