

# AI\_Quiz\_02

BE-A-RollNO

Total points 10/10

Email \*

ameythakur@ternaengg.ac.in

✓ 1)When is breadth-first search is optimal? \*

1/1

☐ When there is less number of nodes

☒ When all step costs are equal



☐ When all step costs are unequal

☐ None of the mentioned

✓ 2)Heuristic function  $h(n)$  is \_\_\_\_ \*

1/1

☐ Lowest path cost

☐ Cheapest path from root to goal node

☒ Estimated cost of cheapest path from root to goal node



☐ Average path cost



✓ 3) Blind searching is general term for \*

1/1

- ☐ Informed Search
- ☒ Uninformed Search
- ☐ Informed & Unformed Search
- ☐ Heuristic Search



✓ 4) Uniform-cost search expands the node n with the \_\_\_\_\_ \*

1/1

- ☒ Lowest path cost
- ☐ Heuristic cost
- ☐ Highest path cost
- ☐ Average path cost



✓ 5) Which search uses the problem specific knowledge beyond the definition of the problem? \*

1/1

- ☒ Informed search
- ☐ Depth-first search
- ☐ Breadth-first search
- ☐ Uninformed search



✓ 6)What is the heuristic function of greedy best-first search? \*

1/1

☐  $f(n) \neq h(n)$

☐  $f(n) < h(n)$

☒  $f(n) = h(n)$



☐  $f(n) > h(n)$

✓ 7)A search algorithm takes \_\_\_\_\_ as an input and returns \_\_\_\_\_ as an output. \*

1/1

☐ Input, output

☒ Problem, solution



☐ Solution, problem

☐ Parameters, sequence of actions

✓ 8)How many types are available in uninformed search method? \*

1/1

☐ 3

☒ 4



☐ 5

☐ 6



✓ 9)DFS is \_\_\_\_\_ efficient and BFS is \_\_\_\_\_ efficient. \*

1/1

☒ Space, Time



☐ Time, Space

☐ Time, Time

☐ Space, Space

✓ 10)Strategies that know whether one non-goal state is “more promising” than another are called \*

1/1

☐ Informed & Unformed Search

☐ Unformed Search

☐ Heuristic & Unformed Search

☒ Informed & Heuristic Search



This form was created inside of Terna.

Google Forms

