| | | | | |
|---|---|---|---|---|
| | Straight-line distance between a node to a goal node M<br><br>*A* 24 *F* 145 *K* 108 *P* 65<br>*B* 28 *G* 123 *L* 51 *Q* 11<br>*C* 70 *H* 95 *N* 58<br>*D* 95 *I* 77 *O* 10<br>*E* 118 *J* 57 *M* 0 | | | |
| | b. With a neat diagram explain agents interact with environment through sensors and actuators. | 04 | Understand | CO1 |
| | c. Define Artificial Intelligence. List out any two applications of AI. | 03 | Understand | CO1 |
| 3 | a. Explain the structure of a model based reflex agent with the help of a diagram. | 04 | Understand | CO1 |
| | b. Discuss the properties of Best First Search. | 04 | Understand | CO1 |
| | c. Describe Greedy BFS informed search techniques in detail with examples. Compare the performance metric values. | 07 | Understand | CO1 |

**Course Outcomes meant to be assessed by the IA Test 1:**

CO1: Identify the modern view of artificial intelligence and its applications based on agent philosophy and understand the various AI search strategies, their performance and applications using any programming environment. (PO-1,2,3,5,9,10, PSO-2,3)
CO2: Demonstrate an understanding of knowledge based agents and various knowledge representation and inference techniques and analyze how a particular inference technique works on a problem specification. (PO-2,3,4, PSO-2)