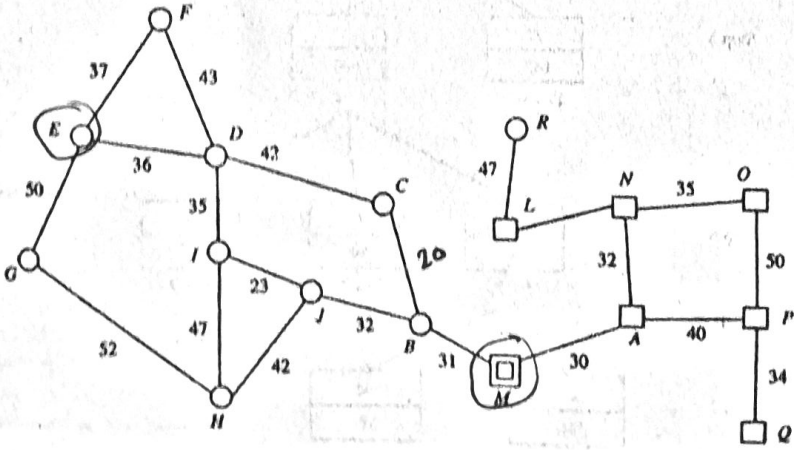## CIE: Internal Assessment Details

Internal Assessment Question Paper – 1
Ramaiah Institute of Technology
(Autonomous Institute, Affiliated to VTU)
Department of Computer Science and Engineering

Programme: B.E	**Term:** Oct 2021 - Feb 2022	**Max Marks:** 30
CIE: Test 1	**Subject:** Artificial Intelligence	**Subject Code:** CS53
Credits: 3:0:1	**Sem:** V	**Sec:** A, B, C
Date: 07/12/2021	**Time:** 10.30AM – 11:30AM	**Portions for Test:** (L1-L12)

Instructions to Candidates:
1. **Question 1 is Compulsory.** Answer any one question from 2 and 3.
2. Each Question carries 15M. **Write figures wherever necessary.**
3. Mobiles, smart watches or any electronic gadgets are strictly banned.

Sl #	Question	Marks	Bloom's Level	CO Mapping
1	a. Discuss the foundations of AI.	04	Understand	CO1
	b. Illustrate the PEAS description for i) Taxi driver (ii) Medical diagnosis system	04	Apply	CO1
	c. Describe uninformed search techniques in detail with examples. Compare the performance metric values.	07	Understand	CO1
2	a. Discuss A* Algorithm. Find out an optimal to travel from one corner to another corner of a country using heuristic function (Straight-line distance between each node to the Goal node M). Here start node is E and Goal node is M.	08	Apply	CO1

Fig. Road map of a country (Distances CB=38, LN=49)

heuristic   Act

78
38
11.8
23A

P.T.O.