A.Y.-2023-24 – T.Y. B.Tech – Department of Computer Engineering

ODD SEMSTER (SEM- V)

Subject: Artificial Intelligence **Subject Code: PCCO5030T**

Term Test – I

Unit- 1

Que No.	Questions (Statement)	Marks	CO	Blooms Level	PI
1	Give PEAS description for an Automated Taxi agent .Characterize & Justify its task environment	5	CO1	L5	1.4.1
2	Describe properties of task environment in detail.	5	CO1	L1	1.3.1
3	Describe Simple reflex agent with suitable diagram in details.	5	CO1	L2	1.4.1
4	Show the categorization of Intelligent systems and explain in details.	5	CO1	L4	1.4.1
5	List all the types of AI agents. Explain Goal based agent with suitable diagram in details.	10	CO1	L2	1.4.1
6	Explain the learning agent in detail.	10	CO1	L2	1.4.1
7	Describe the various the applications of AI.	10	CO1	L3	1.4.1
8	Illustrate trends in AI.	10	CO1	L3	1.4.1

Mr. P.R. Patil

Mr. S. H. Chaudhari Mr. P. R. Patil Dr.U. M. Patil Dr. Nitin N. Patil

Subject Teachers Module Coordinators Program Cordinator H.o.D

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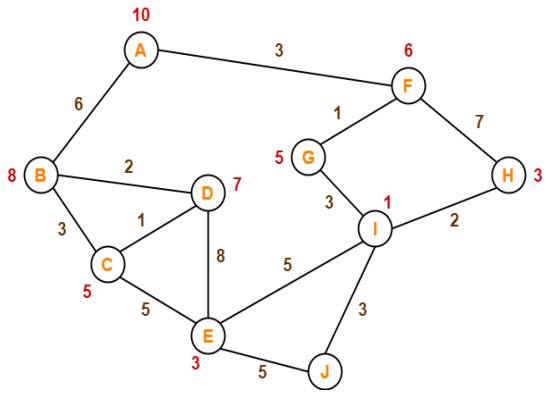
Term Test – I

Unit- 2

Que No.	Questions (Statement)	Marks	CO	Blooms Level	PI
1	Describe Breadth First Search (BFS) in detail with suitable example.	5	CO2	L2,L3	1.3.1
2	Describe Depth First Search (DFS) in detail with suitable example	5	CO2	L2,L3	1.3.1
3	Describe Depth-limited search algorithm in detail with suitable example.	5	CO2	L2,L3	1.3.1
4	Describe Genetic algorithms in detail with suitable example	5	CO2	L2,L3	1.3.1
5	 The numbers written on edges represent the distance between the nodes.The numbers written on nodes represent the heuristic value. Find the most cost-effective path to reach from start state A to final state J using A* Algorithm.	10	CO2	L3	2.4.1
6	Describe Ant Colony Optimisation Algorithm in details.	10	CO2	L2	1.3.1
7	Exlpain Minimax algorithm with its properties in details with suitable example.	10	CO2	L3	1.3.1
8	Explain α-β pruning algorithm in details with suitable diagram.	10	CO2	L2	1.3.1

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