Seat	No:	
------	-----	--

MIT ACADEMY OF ENGINEERING

COURSE CODE: CS312T 8 OCTOBER 2018

TY BTECH SEMESTER - V 2018 - 2019 EXAMINATION DEPARTMENT OF COMPUTER ENGINEERING

IN COURSE EXAMINATION

ARTIFICIAL INTELLIGENCE AND NEURAL NETWORKS

TIME: 2 HOURS MAX MARKS: 50 MARKS
TOTAL NO OF QUESTIONS: 05 TOTAL NO OF PRINTED PAGES: 01

INSTRUCTIONS TO CANDIDATES:

- 1. Assume suitable data wherever necessary.
- 2. Non programmable scientific calculators are allowed.
- 3. Black figures to the right indicate full marks.

1	a)	Identify PEAS representation for following instances:		CO1	L3
		i) Recommendation System			
		ii) Vacuum Cleaner			
		iii) Driver less car			
	b)	Classify types of rationality.	[04]	CO1	L4
2	a)	Make use of heuristic function for any real time example.	[06]	CO2	L3
	b)	Compare Depth First Search & Breadth First Search.	[04]	CO2	L4
3	a)	Evaluate 8 tiles problem using A* Algorithm.	[10]	CO2	L5
	a)	OR Demonstrate following CSP i) Map Coloring Problem ii) Cryptarithmatic Problem	[10]	CO3	L2
4	a)	Infer reverting back process through backtracking algorithm.	[06]	CO3	L2
	b)	Demonstrate alpha beta prunning algorithm for gaming example.	[06]	CO3	L2
5	a)	Discover the AI applications in field of automation. (any two)	[80]	CO1,2	L4