Code: IT7T4B

IV B.Tech - I Semester – Regular / Supplementary Examinations November 2016

ARTIFICIAL INTELLIGENCE (INFORMATION TECHNOLOGY)

Duration: 3 hoursMax. MarkAnswer any FIVE questions.All questions carry equal matrix	
1. a) Define Artificial Intelligence. Illustrate importance of with examples.	AI 7 M
b) Describe Production system characteristics with exam	ples. 7 M
2. a) What is Heuristic? Explain Best first search Algorithn Examples.	n with 7 M
b) Distinguish between A* vs. AO*	7 M
3. a) Describe Mapping between facts and representations vehicles and sketch diagram.	with 7 M
b) Define Resolution. Explain with suitable example.	7 M
4. a) How knowledge can be represented using Declarative Knowledge, explain with suitable example.<i>Page 1 of 2</i>	7 M

b) Compare and contrast, forward vs. Backward	d Reasoning.
	7 M

5. a) What is Nonmonotonic reasoning, explain with suitable example.	ole 7 M	
b) Differentiate implementation of DFS and BFS.	7 M	
6. a) List Semantic Networks. Explain features of Semantic	c net. 7 M	
b) Describe major components of a Restaurant Script.	7 M	
7. a) What is minmax search procedure, explain with suital example.	ble 7 M	
b) Discuss Goal stack planning.	7 M	
8. a) Robot has intelligent behaviour, why? Justify with suitable examples.7 M		
b) Explain Perception and Action with example.	7 M	