R18

Code No: 157EG

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, February/March - 2022 ARTIFICIAL INTELLIGENCE

(Common to CE, ECE)

Time: 3 Hours Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

- - -

1.a) b)	What is problem solving agent and explain components of it. Explain breadth first search algorithm.	[8+7]
2.a) b)	Write about Uniform cost search technique. Explain backtracking in detail.	[7+8]
3.a) b)	Elaborate Alpha Beta pruning. Explain components of game search algorithm.	[7+8]
4.a) b)	Explain different quantifier. Discuss about forward chaining with example.	[8+7]
5.a) b)	Explain semantics of first order logic in knowledge representation. Write about backward chaining in first order logic.	[7+8]
6.a) b)	Explain about ontology for an event. Write about resolution in first order logic.	[8+7]
7.a) b)	What is partial order planning? Explain with examples. Explain conditional planning agent.	[7+8]
8.a) b)	Explain joint probability distribution with example. Explain Baye's Rule and its use.	[8+7]

---00O00---