

SET-1

B. Tech III Year I Semester Examinations, December-2011 ARTIFICIAL INTELLIGENCE (COMPUTER SCIENCE AND ENGINEERING)

Time: 3 hours

Max. Marks: 80

Answer any five questions All questions carry equal marks

1.	Define state space. Explain the state space with an example.	[16]	
2.	What is a constraint satisfaction? Explain how constraint satisfaction solving the Crypt- arithmetic problem.	helps in [16]	
3.a) b)	 What are the four factors that influence the question of whether it is reason Forward or Backward? Assume the following facts: Steve only likes easy courses Science courses are hard All the courses in the basket-weaving department are easy BK301 is a basket-weaving course Use resolution to answer the question, "What course would Steve like?" 	better to	
4.a) b)	Define Script. Give some of the applications of scripts in real-world. Construct a Script for a restaurant and Explain.	[8+8]	
5.a) b) c)	State Baye's theorem. What is the difference between JTMS and LTMS? Write short notes on certainty factors and rule-based systems.	[16]	
6.a) b)	Explain the Min-max algorithm with an example. Write short notes on Alpha-Beta cutoffs.	[8+8]	
7.a) b)	Explain Waltz algorithm with an example. What are the steps involved in the process of NLP?	[8+8]	
8.a) b)	Explain Winston's learning problem. Write notes on decision trees.	[8+8]	

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SET-2

B. Tech III Year I Semester Examinations, December-2011 ARTIFICIAL INTELLIGENCE (COMPUTER SCIENCE AND ENGINEERING)

Time: 3 hours

1.a)

Max. Marks: 80

Answer any five questions All questions carry equal marks

What are the four factors that influence the question of whether it is better to

,	reason Forward or Backward?	
b)	Assume the following facts:	
	• Steve only likes easy courses	
	Science courses are hard	
	• All the courses in the basket-weaving department are easy	
	• BK301 is a basket-weaving course	
	Use resolution to answer the question, "What course would Steve like?"	[16]
2.a)	Define Script. Give some of the applications of scripts in real-world.	
b)	Construct a Script for a restaurant and Explain.	[8+8]
3.a)	State Baye's theorem.	
b)	What is the difference between JTMS and LTMS?	
c)	Write short notes on certainty factors and rule-based systems.	[16]
4.a)	Explain the Min-max algorithm with an example.	
b)	Write short notes on Alpha-Beta cutoffs.	[8+8]
5.a)	Explain Waltz algorithm with an example.	
b)	What are the steps involved in the process of NLP?	[8+8]
6.a)	Explain Winston's learning problem.	
b)	Write notes on decision trees.	[8+8]
7.	Define state space. Explain the state space with an example.	[16]
8.	What is a constraint satisfaction? Explain how constraint satisfaction solving the Crypt- arithmetic problem.	helps in [16]



SET-3

B. Tech III Year I Semester Examinations, December-2011 ARTIFICIAL INTELLIGENCE (COMPUTER SCIENCE AND ENGINEERING)

Time: 3 hours

Max. Marks: 80

Answer any five questions All questions carry equal marks

1.a)	State Baye's theorem.	
b) c)	What is the difference between JTMS and LTMS? Write short notes on certainty factors and rule based systems	[16]
C)	while short notes on certainty factors and fulle-based systems.	[10]
2.a)	Explain the Min-max algorithm with an example.	
b)	Write short notes on Alpha-Beta cutoffs.	[8+8]
3.a)	Explain Waltz algorithm with an example.	
b)	What are the steps involved in the process of NLP?	[8+8]
4.a)	Explain Winston's learning problem.	
b)	Write notes on decision trees.	[8+8]
5.	Define state space. Explain the state space with an example.	[16]
6.	What is a constraint satisfaction? Explain how constraint satisfaction solving the Crypt- arithmetic problem.	helps in [16]
7.a)	What are the four factors that influence the question of whether it is reason Forward or Backward?	better to
b)	Assume the following facts:	
,	• Steve only likes easy courses	
	• Science courses are hard	
	• All the courses in the basket-weaving department are easy	
	• BK301 is a basket-weaving course	
	Use resolution to answer the question, "What course would Steve like?"	[16]
8.a)	Define Script. Give some of the applications of scripts in real-world.	

b) Construct a Script for a restaurant and Explain. [8+8]



SET-4

B. Tech III Year I Semester Examinations, December-2011 ARTIFICIAL INTELLIGENCE (COMPUTER SCIENCE AND ENGINEERING)

Time: 3 hours

Max. Marks: 80

Answer any five questions All questions carry equal marks

1.a) b)	Explain Waltz algorithm with an example. What are the steps involved in the process of NLP?	[8+8]
2.a) b)	Explain Winston's learning problem. Write notes on decision trees.	[8+8]
3.	Define state space. Explain the state space with an example.	[16]
4.	What is a constraint satisfaction? Explain how constraint satisfaction solving the Crypt- arithmetic problem.	helps in [16]
5.a) b)	 What are the four factors that influence the question of whether it is reason Forward or Backward? Assume the following facts: Steve only likes easy courses Science courses are hard All the courses in the basket-weaving department are easy BK301 is a basket-weaving course Use resolution to answer the question, "What course would Steve like?" 	better to [16]
6.a) b)	Define Script. Give some of the applications of scripts in real-world. Construct a Script for a restaurant and Explain.	[8+8]
7.a) b) c)	State Baye's theorem. What is the difference between JTMS and LTMS? Write short notes on certainty factors and rule-based systems.	[16]
8.a) b)	Explain the Min-max algorithm with an example. Write short notes on Alpha-Beta cutoffs.	[8+8]

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