No.:	Name:		
Computer Science Homework for Chapter 11			Due: 2010/06/09
1. The diagram below re unit has a threshold value of 2.5		e memory as describe in the n will it become excited?	e text. If the center
-1 1 1 -1 1 -1 -1 -1	≽		
A. Any of the other units e C. Any two of the other un	excited B. W. hits excited D. A.	Vill never be excited at least three of the other unit	ts excited
2. In an artificial neural produce an output of 1.	network, what input v	alues will cause the process	ing unit below to
$\begin{array}{c c} & & 1 \\ \hline & & -2 \\ \hline & & 1 \end{array} .5$			
A. All three 0 B. All three 1 C. Any combination in D. Any combination in	which the center input which at least one inp	t is 0 and at least one other i ut is 1	nput is 1
3. If the heuristic being u		-tiles-out-of-place, which of ration by a heuristic search?	
A. 1 2 3 4 5 7 8 6	B. 2 3 1 5 6 4 7 8	C. 13 426 758	D. 1 3 4 2 6 7 5 8
4. Which of the following and error" approach?	ng programming metho	odologies seeks to develop s	software by a "trial
A. Object-oriented program C. Evolutionary programm	mming B. So	tructured programming Declarative programming	
5. Which of the following	ng is a statement of the	e closed-world assumption?	
A. The database contains of B. The database contains of C. If a statement is not a condition of D. The database contains a	only true statements. onsequence of informations	ation in the database, then the	ne statement is false

6. At what "stage sentence determined?	of analysis is	the meaning of the word ball in the following		
A. Syntactic analysi	B. Semant	tic analysis C. Contextual analysis		
7. In the following table, connect the term to each phrase that gives the best description of the term. (40%)				
Term		Descriptive Phrase		
semantic net	_ A.	A responsive entity		
production system	В.	A means of measuring a machine's ability to perform like a human		
breadth-first search	_ C.	The task of understanding an image		
associative memory	D.	To identify by comparing to predefined patterns		
inference rule	E.	A "universal" approach to the construction of reasoning systems		
genetic algorithms	F.	A tool for simulating intuition		
	- G.	The result of considering all options equally important		
agent	— н.	A "picture" of all states and productions		
real-world knowledge	I.	A means of obtaining a statement that is a logical		
expert system	_ J.	consequence of other statements The "database" used by an intelligent system to support its		
template matching	_	reasoning		
image analysis	K.	A multiprocessor computer consisting of many simple		
heuristic	_ L.	processors A field of artificial intelligence that applies evolutionary		
contextual analysis		theories to the problem solving process		
•	М.	The ability to recall related information		
state graph		A software package for solving problems within a particular		
Turing test	_	field		
artificial neural network	_ 0.	A means of representing knowledge		

P. To relate a sentence to its environment