1. Briefly, and concisely, explain what a script is and describe the basic components of a script.

A Script demonstrates interactions between players

Of a sertain so senerio. An example of a senerio

Would be a restaurant. A script also sive the players.

ie., waitness, toos customer, work. It also sives post type

Conditions. ic, Pre: Customer has b t customer is honsary.

Ascript also sives The interactions to cause the

Post conditions to become true. ie., waitness takes customor's

Grave.

2. Briefly, and concisely, describe cellular automata and their behavior.

Cellular automata is a type of a gent used in supervised learning. They are autonomas to where they do not know about any other automates. They run simutaniously. Once more automates that goes state they all quit.



Completely, and concisely, describe the perceptron training algorithm.

4. Symbol based learning systems use *generalization* and *specialization* operations on symbolic expressions while processing training data. Explain both operations and give an example of each.

generalization is used to make a set of training data become as general as possible.

Ex. if given a positive example obj (red, Small, ball)

the generalization would be obj (X, Y, Z).

if given a hesative example obj (blue, small, ball)

the seneralization would now become obj (red, *Y, Z).

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Specialization is used to make a set of data become as specific as possible.

EX. if Siven a positive example obj (red, small, ball)
the specification would be obj (red, small, ball)
if Siven another possitive example obj (blue, small, ball)
the specification would be obj (X, small, ball)

replaces constants w/variables replaces variables w/ constants

5.	Indicate, in the space provided, if the following statements are true or false. briefly explain why.	If false,
	A frame, by itself, has no temporal aspect.	1
w	The ID3 algorithm builds a decision tree from the leafs up.	
	Every living person has a complete and detailed Opera script.	
	F A linearly separable function cannot be solved with a perceptron.	
	T Clustering algorithms are a form of unsupervised learning.	

6. Fil	ll in the blanks with the appropriate answer from the choices given.
	i) A Stramic No represents knowledge as a graph. - frame - generalization - semantic network - perceptron
	ii) will never pass this class. - Tom - Dick - Harry - Conan
	Replacing constants with variables is a form of Structization - elimination - generalization - specialization - reinforcement
	iv) If concept p is more general than concept q, then p (s) q. - replaces - covers - entropies - biases
	- biases v) Gudidate uses both specific-to-general and general-to-specific approaches to learning. - Candidate elimination - Backpropagation - Reinforcement - Planning