GRADE 100%

TO PASS 80% or higher

## Alpha Go

TOTAL CONTROL OF THE		
1.	In this quiz I would like you to do some independent research about a high profile area of Al: playing games.  One of the achievements of Al in recent years has been Alpha Go: software that beat a world champion at the game Go.	
	I would like you to research two important game playing programmes: IBM Deep Blue and Alpha Go and how they are different. Then answer the following questions.	
	A simple web search should reveal some useful information. If you don't know the answer to any question, feel free to go back and do some more research before finished the quiz.	
	Firstly, what game was Deep Blue famous for playing?	
	○ Go	
	○ tic-tac-toe	
	O Poker	
	Chess	
	✓ Correct Yes, that is right	
2.	Since his defeat by Deep Blue, Garry Kasparov has championed "Advanced Chess". What is that?	
	New chess rules that are so difficult only computers can play it	
	Several humans working together to beat a computer at standard chess	
	Human players working with computer to play standard chess	
	New chess rules that are too difficult for computers to win at	
	Correct Yes, even if computers can be better than humans at something, humans and computers working together are often even better.	
2	Why is the game Go considered much harder than chess for computers?  1/1 point	
3.		
	There are much more complex	
	There are many more types of piece	
	Go is a game of chance	
	The number of possible variations of a Go game is much larger	
	Correct Yes, even though the rules are simple, the number of possible moves and therefore possible games is much, much higher than chess	
4.	What AI method does Alpha Go use?	
	Neural networks	
	Expert Systems	
	Brute force calculation	
	Cogic rules	
	Logic Fules	
	Correct Yes, it uses a range of methods but neural networks are probably the most important.	
5.	Why was Alpha Go able to play Go so well?	
	Expert mathematicians analysed the game of Go and designed the best algorithms for playing it.	
	It used the same methods as Deep Blue, but was able to play a more complex game because more computing	

power was available iii 2010 triaii iii 1997

- It "learned" to play from famous games and playing against itself.
- $\hfill \bigcirc$  It used rules designed by some of the best Go players in the world



✓ Correct

Yes, Alpha Go is a high profile example of "Machine Learning", which we will learn about next