## 2CE702/2IT702-AI(TH-MCQ) Artificial Intelligence

* In	dicates required question	
1.	Email *	
2.	Enrollment Number *	-
3.	Student's Name *	-
4.	Branch *	
	Mark only one oval.  Computer Engineering Information Technology	
	2CE702/2IT702-AI(TH-MCQ) Artificial In	ntelligent
5.	<sup>∨</sup> x: €y: loyalto(x, y). Predicate the given lo	ogic. * 1 poin
	Mark only one oval.	
	Everyone is loyal to some one	
	Everyone is loyal to all	
	Everyone is not loyal to someone	
	Everyone is loyal to y	

6.	'All monkeys have tails', How to represent the given statement in logic? *	1 point
	Mark only one oval.	
	<pre></pre>	
7.	In A* algorithm the heuristic function used as $f' = g + h'$ to estimate the cost of getting from the initial state to the goal state, where $g$ is a measure of the cost of getting from initial state to the current node and the function $h'$ is an estimate of the cost of getting from the current node to the goal state. To find a path involving the fewest number of steps, we should set	* 1 point
	Mark only one oval.	
	g=0 $g=1$ $h'=0$ $h'=1$	
8.	To infers and manipulates available knowledge in order to generate new knowledge a program is used, it is called	* 1 point
	Mark only one oval.	
	Reference Mechanism Data Dictionary Inference Engine Control Strategy	

9.	which one of the following describes the syntax of prolog program? * 1 point		
	Mark only one oval.		
	Rules and facts are terminated by full stop (.) and Variables names must with upper case alphabets.		
	Rules and facts are terminated by full stop (.) and Rules and facts are terminated by semicolon (;)		
	Rules and facts are terminated by semicolon (;) and Variables names must start with lower case alphabets.		
	Variables names must with upper case alphabets and it must start with lower case alphabets.		
10.	Which are the main characteristics of genetic algorithm? * 1 point		
	Mark only one oval.		
	Individuals among the population & Random mutation		
	Random mutation & Fitness function		
	Crossover techniques & Random mutation		
	Fitness function & Crossover techniques		
11.	In which algorithm the concept of FUTILITY is used * 1 point		
	Mark only one oval.		
	A-star A0-star Best First search Breadth First search		

12.	Up to which depth the alpha-beta pruning can be applied? *	1 point
	Mark only one oval.	
	10 states 8 States 10 states and 8 states(both)	
	Any depth	
13.	Which of the following is NOT a variation of Hill Climbing? *	1 point
	Mark only one oval.	
	Steep Hill climbing Steepest Ascent Hill climbing Stimulated Annealing All	
14.	The heuristic is used for what? *	1 point
	Mark only one oval.	
	To discover something or an idea embedded in a program	
	To search and measure how far a node in a search tree seems to be from a  To compare two nodes in a search tree to see if one is better than the othe  All	_
15.	A perceptron is a *	1 point
	Mark only one oval.	
	Feed-forward neural network	
	Back-propagation alogorithm	
	Feed Forward-backward algorithm	
	Back-tracking algorithm	

16.	What is/are the functionality(s) of Axon in Biological neural network? *	1 point	
	Mark only one oval.		
	Both		
	Axons are fibres which emanate from the cell body and provide the reception zones that receive activation from other neurons.		
	Axons are fibres acting as transmission lines that send activation to other neurons		
	None		
17.	Which of the following is not the component of BNN? *	1 point	
	Mark only one oval.		
	Synapses		
	Axon		
	Dendrites		
	Neurotransmitter		
18.	Which function is used to calculate the feasibility of whole game tree? *	1 point	
	Mark only one oval.		
	Evaluation function		
	Transposition		
	Alpha-beta pruning		
	All		

19.	Which search technique is similar to minimax search technique? *	1 point
	Mark only one oval.	
	Hill-climbing search	
	Depth-first search	
	Breadth-first search	
	Problem Reduction	
20.	A mixed strategy which allows to solve the major parts of a problem first and then go back and solve small problems that arise in gluing the big pieces together is called	* 1 point
	Mark only one oval.	
	State approach	
	Constraint satisfaction	
	Check constraint	
	Means-ends analysis	
21.	Which of the following combination is not correct for Hill climbing? *	1 point
	Mark only one oval.	
	Local Maximum-Backtrack	
	Plateau-Big jump	
	Ridge-Apply two or more rules	
	Local Maxima-Foothills	

22.	Which of the following is/are the advantage(s) of Hill climbing *	point
	Mark only one oval.	
	Useful in job shop scheduling, automatic programming	
	To solve pure optimization problems where the objective is to find the best state according to the objective function	
	All	
	It requires much less conditions than other search techniques	
23.	A0-star algorithm is used for *	point
	Mark only one oval.	
	Breadth First Search	
	Best First Search	
	Problem Reduction	
	Hill Climbing	
24.	To solve different types of problems, the problem should be represents in * 1 terms of	point
	Mark only one oval.	
	Initial State	
	Goal State	
	A set of legal transitions to transfer states into new states  All	

25.	problem?	1 point
	Mark only one oval.	
	The sequence of actions	
	An operator takes the agent from one state to another state	
	A number and a common path cost may be the sum of the costs of the steps the path	s in
	All can be	
26	la M/high averagle ver have to take acre about to made acres a trata me to	
26.	In Which example we have to take care about to good control strategy to * be causes motion.	1 point
	Mark only one oval.	
	Suppose we have implemented the simple control strategy of starting each t at the top of the list of rules and choosing the first applicable one	ime
	Choose random rule among applicable rules	
	Both	
	Not given	
27.	In travelling salesman problem the good solution will be *	1 point
	Mark only one oval.	
	absolute	
	relative	
	both can be	
	Not given	

28.	In which algorithm the concept of OPEN list and CLOSE list is used *	1 point
	Mark only one oval.	
	A-star	
	A0-star	
	Best First search	
	Breadth First search	
29.	In Tower of Hanoi problem we get *	1 point
	Mark only one oval.	
	solution as a state	
	solution as a path	
	Both can be	
	None	
30.	In which method an unexpanded node to be kept in memory and will be	* 1 point
30.	used when it looks more promising?	Тропп
	Mark only one oval.	
	Best First Search	
	Problem Reduction	
	Hill Climbing	
	Generate and Test	
31.	In which method the concept of AND-OR graph is used? *	1 point
	Mark only one oval.	
	Best First Search	
	Problem Reduction	
	Hill Climbing	
	Generate and Test	

32.	Which of the following is false about ANN and BNN? *	1 point
	Mark only one oval.	
	BNN is Slower in speed and ANN is Faster in speed.	
	In BNN Adaptable is possible and in ANN Adaptable is not possible	
	In BNN Memory and processing are separate and in ANN Memory and processing elements are collocated.	
	In BNN if irrespective of faults in network connections, then also information still preserved and in ANN If information corrupted in the memory, it can not be restored back.	on is
33.	What is the functionalities of bias in Neural Network? *	1 point
	Mark only one oval.	
	In ANN defines the output of neuron given a set of inputs.	
	Bias nodes are added to increase the flexibility of the model to fit the data.	
	Bias refers to the strength or amplitude of a connection between two nodes	S
	Not Given	
34.		t 1 point
	development tool?	
	Mark only one oval.	
	rapid prototyping	
	All of the given	
	imposed structure	
	knowledge engineering assistance	

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