Program: BE Information Technology Curriculum Scheme: Rev2016 Examination: Fourth Year Semester VII

Course Code: ITC703 and Course Name: Artificial Intelligence

Time: 1 hour Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	What is the rule of simple reflex agent?	
Option A:	Condition-action rule	
Option B:	Simple-action rule	
Option C:	left hand thumb rule	
Option D:	Right hand thumb rule	
1		
Q2.	The set of actions for a problem in a state space is formulated by a	
Option A:	Intermediate states	
Option B:	Initial state	
Option C:	Successor function, which takes current action and returns next immediate state	
Option D:	Goal States	
Q3.	Which approach is called the Turing test approach?	
Option A:	Thinking rationally	
Option B:	Acting rationally	
Option C:	Acting Humanly	
Option D:	Thinking Humanly	
Q4.	function is a function that assigns a cost to a path.	
Option A:	Distance	
Option B:	Path Cost	
Option C:	Length	
Option D:	Goal-Test	
Q5.	Which search is implemented with an empty first-in-first-out queue?	
Option A:	Depth-first search	
Option B:	Breadth-first search	
Option C:	Bidirectional search	
Option D:	Best-First Search	
Q6.	How many types of informed search method are in artificial intelligence?	
Option A:	1	
Option B:	2	
Option C:	3	
Option D:	4	
5 p		
Q7.	are mathematical problems defined as a set of objects whose state must	
	satisfy a number of constraints or limitations.	
Option A:	Constraint Satisfaction problem	

Option B:	Uninformed search problem		
Option C:	Local search problems		
Option D:	: Informed search problem		
Q8.	Which is not the property of Hill Climbing?		
Option A:	Does not look ahead of the immediate neighbors of current state		
Option B:	Chooses randomly among the best of successors		
Option C:	Terminated when the pick is reached		
Option D:	Does backtrack		
2.0			
Q9.	A constraint is		
Option A:	a restriction on what values the variables in the problem can take		
Option B:	something that prevents an algorithm from solving a problem		
Option C:	limitation of problem solving approach		
Option D:	its limit on depth of tree		
Q10.	What is meant by compositional semantics?		
Option A:	Determining the meaning		
Option B:			
	Logical connectives		
Option C:	Semantics		
Option D:	Reference		
Q11.	Which is created by using single propositional symbol?		
Option A:	Complex sentences		
Option B:	Composition sentences		
Option C:	Atomic sentences		
Option D:	Flowchart		
- <b>r</b> · · ·			
Q12.	Which is not a knowledge representation language?		
Option A:	first order predicate logic		
Option B:	hard logic		
Option C:	propositional logic		
Option D:	temporal logic		
-			
Q13.	Which one of the following is the most appropriate logical formula to represent		
Q10.	the statement? "Gold and silver ornaments are precious". The following notations		
	are used: $G(x)$ : x is a gold ornament $S(x)$ : x is a silver ornament $P(x)$ : x is		
	precious		
Option A:	$\forall x((G(x)\lor S(x))\rightarrow P(x))$		
Option B:	$\forall x(P(x) \rightarrow (G(x) \land S(x)))$		
Option C:	$\exists x((G(x)\land S(x))\rightarrow P(x)$		
Option D:	$\forall x((G(x) \land S(x)) \rightarrow P(x))$		
Q14.	Which is also called single inference rule?		
Option A:	Reference		
Option B:	Reform		

Option C:	Resolution		
Option D:	Forward Chaining		
Q15.	Uncertainty arises in WUMPUS works because agent sensor give only?		
Option A:	Full and global information		
Option B:	partial and local information		
Option C:	full and local information		
Option D:	partial and global information		
Q16.	Which of the following search belongs to total ordered plan search?		
Option A:	Breadth		
Option B:	Depth		
Option C:	Forward State		
Option D:	Hill		
Q17.	Which algorithm places two actions into a plan without specifying which should		
	come first?		
Option A:	Partial -order planner		
Option B:	Full -order planner		
Option C:	Total -order planner		
Option D:	Semi -order planner		
Q18.	A Hybrid Bayesian network contains		
Option A:	Both discrete and continuous variables		
Option B:	Only Discrete variables		
Option C:	Only Discontinuous variable		
Option D:	Both Discrete and Discontinuous variable		
Q19.	If a hypothesis says it should be positive, but in fact it is negative, we call it		
0 11 4			
Option A:	A consistent hypothesis		
Option B:	A false negative hypothesis		
Option C:	A false positive hypothesis		
Option D:	A specialized hypothesis		
020	How the Davisian network can be used to engine any grown?		
Q20.	How the Bayesian network can be used to answer any query?  Full distribution		
Option A:			
Option B:	Partial distribution		
Option C:	conditional distribution		
Option D:	Joint distribution		
Q21.	How many Components of NLP are there?		
Option A:	2		
Option B:	3		
Option C:	4		
Option D:	5		
Spaon D.	~		

Which of the following is used to mapping sentence plan into sentence structure:	
Text planning	
Text Realization	
Semantic Planning	
Sentence planning	
Morphemes that cannot stand alone and are typically attached to another to	
become a meaningful word is called,	
Lexical morphemes	
Free morphemes	
Derived morphemes	
Bound morphemes	
Which of the text parsing techniques can be used for noun phrase detection, verb	
phrase detection, subject detection, and object detection in NLP?	
Dependency Parsing and Constituency Parsing	
Part of speech tagging	
Skip Gram and N-Gram extraction	
Continuous Bag of Words	
Natural language processing is divided into the two subfields of	
algorithmic and heuristic	
symbolic and numeric	
time and motion	
understanding and generation	

Program: BE Information Technology Curriculum Scheme: Rev2016 Examination: Fourth Year Semester VII

Course Code: ITC703 and Course Name: Artificial Intelligence

Time: 1 hour Max. Marks: 50

Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	С
Q3.	С
Q4	В
Q5	В
Q6	D
Q7	A
Q8.	D
Q9.	A
Q10.	A
Q11.	С
Q12.	В
Q13.	A
Q14.	С
Q15.	В
Q16.	С
Q17.	A
Q18.	A
Q19.	С
Q20.	D
Q21.	A
Q22.	В
Q23.	D
Q24.	A
Q25.	D