



## **BRAINWARE UNIVERSITY**

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Brainware University
Barasat, Kolkata -700125

**Term End Examination 2022** 

Programme – B.Tech.(CSE)-2017/B.Tech.(CSE)-2018/B.Tech.(CSE)-2019/B.Tech. (CSE)-2020

Course Name – Artificial Intelligence Course Code - BCSE504B/PEC-501C ( Semester V )

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	Marks: 60 he figure in the margin indicates full marks. Cana	didatas ara na minada a sinada si	Time: 2:30 Hours
	he figure in the margin indicates full marks. Cand own words as far	r as practicable.]	r answers in their
	Grou	up-A	
	· (Multiple Choice		1 x 15=15
1.	Choose the correct alternative from the following	ng:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(i)	The Key task of a problem-solving agent is give	en by	
	a) Solve the given problem and reach to goal	<ul> <li>b) To find out which sequence get it to the goal state</li> </ul>	e of action will
(ii)	<ul><li>c) Both a and b</li><li>Give the agent name that does the problem g</li></ul>	d) None of these generator concept?	. 5
	a) Learning agent	b) Observing agent	
	c) Reflex agent	d) None of the mentioned	
(iii)	The agents select actions or task on the basis		
	a) Utility based agents	b) Model based reflex agent	S
	c) Goal based agents	d) None of these	
(iv	A state space search is formulated by		JA.
	a) Intermediate state	b) Initial state	
	c) Successor function, which takes current action and returns next immediate state	d) None of these	
(v)	The concept that hiding detail representation	n is known as	5.
	a) Extraction	b) Abstraction	
	c) Information Retrieval	d) Data mining	
(vi	) The concept of perceptron implemented by		
	a) Feed-forward neural network	b) Back-propagation algori	thm
	c) Back-tracking algorithm	d) Feed Forward-backward	d algorithm
(vi	<ul> <li>i) The search technique that continually move uphill</li> </ul>	es in the direction of increasing	value that is
	a) Up-Hill Search	b) Hill-Climbing	
	c) Reverse-Down- Hill search	d) None of the mentioned	3
(vi	ii) Limitation of propositional logic can be rem		
•	a) Pre-Propositional Logic	b) Boolean Logic	

d) None of these

c) First-Order-Predicate Logic

a) Linear approach c) Random approach d) An Optimal approach d) An Optimal approach d) An Optimal approach d) Both b and c d) Directed graph c) Directed dyrelic graph (DAG) d) Complete graph d) Wethod of reasoning d) Method of rea		(ix) Best approach for Game applications					
c) Random approach (x) New states are generated in genetic algorithm by a) Composition b) Mutation c) Cross over d) Both b and c d) Complete graph c) Directed Acyclic graph (DAG) d) Complete graph c) Directed Acyclic graph (DAG) d) Complete graph c) Directed Acyclic graph (DAG) d) Complete graph d) Type of knowledgebase c) Type of knowledgebase c) Type of knowledgebase c) Type of learning d) Method of reasoning d) Method of reasonin		a) ' '	b) Heuristic approach (Some knowledge is				
a) Composition c)-Cross over d) Both b and c d) Both b and c d) Cross over d) What is used to represent the semantic network d) Undirected graph c) Directed Acyclic graph (DAG) d) Omplete graph c) Directed Acyclic graph (DAG) d) Omplete graph d) Complete graph d) Complete graph d) Complete graph d) Method of reasoning d			d) An Optimal approach				
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A) Undirected graph   b) Directed graph   c) Directed Acyclic graph   DAG   Complete graph   d) Complete	1	(xi) A graph that is used to represent the semantic					
(xiii) Forward chaining also known as a) Type of knowledgebase c) Type of learning (xiii) Regression method is a example of a) Semi-supervised learning models. c) Supervised learning models. d) unsupervised learning models. (xiv) Transforms the fuzzy value into the crisp value. a) defuzzification Module c) both of these d) None of these (xv) IF-THEN also known as a process a) defuzzification c) Data base  Group-B (Short Answer Type Questions) 3 x 5=15  2. Explain DFS with iterative deepening in Al. OR Differentiate Fuzzy logic and set theory. 3. Explain with some example about different types of production system? OR Prepare a short note about Bayes Network 4. Explain Beam Search with the help of an example. OR Explain the fundamental goal of Knowledge Representation. 5. Illustrate the concepts of MinMax algorithm with an example. OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR Prepare a short note about Hill climbing search OR	į	a) Undirected graph					
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Page 2 of 3							
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11.	. Differentiate DES DES and Di Di	15
	. Differentiate DFS, BFS and Bi Directional search	(5)
12.	OR Explain with the help of an example how inheritance is achieved in Semantic networks? "Measure the following into first-order predicate logic. i ) Every gardener likes the sun. ii) One can fool all of the people some of the time. iii) All purple mushrooms are poisonous."	(5) (5)
	"Prepare a semantic network with the help of a diagram for the following set of knowledge: ABC is a university. CSE, ECE and EEE are three departments in it. Sudha works in department of CSE.CSE is located in C block. She is a professor. Every professor engages lectures and has PhD qualification. Sudha's area of interest in Al."	(5)

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