

## SRM Institute of Science and Technology College of Engineering and Technology School of Computing

Mode of Exam
OFFLINE
SET A – B2

# DEPARTMENT OF COMPUTING TECHNOLOGIES

SRM Nagar, Kattankulathur - 603203, Chengalpattu District, Tamilnadu

Academic Year: 2022-2023 (EVEN)

Test: CLAT-1

Course Code & Title: 18CSC305 & AI

Year & Sem: III & VI

Date: 22.02.2023 Duration: 50 mins

Duration: 50 mins Max. Marks: 25

Course	Articu	ation	Matrix:
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PO1	PO2	PO3	DOA	0.00							
NA	-	THE RESERVE AND PERSONS NAMED IN	-	POS	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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#### **Evaluation Sheet:**

Q.No.	Max Marks	Marks Obtained	Q.No.	Max Marks
1			11	
2			12	
3			13	
4			14	
5				
6				
7				
8				
9				
10				
TOTAL			TOTAL	

	Part - A					
Inch	$(10 \times 1 = 10 \text{ Marks})$					
CO.	ructions: Answer all	Manha	DY	60	no.	
Q. No	Question	Marks	BL	СО	PO	PI Code
1	Identify the problem that has the possibility of more than one answer and even a particular situation decides the correctness of the answer.  a. Non-Linear b. Well Structured c. III-Structured	1	1	1	2	2.1.1
2	d. Unstructured  What is the term used for describing the judgmental or common-sense part of problem solving  a. Value based b. Critical c. Analytical d. Heuristic	1	1	1	1	1.2.1
3	Knowledge and reasoning also play a crucial role in dealing with environment.  a. Completely Observable b. Partially Observable c. Neither Completely nor Partially Observable d. Only Completely and Partially Observable	1	1	1	2	2.1.1

promotor	Which of the following mentioned problems are CSP	1	1			Y TO STORE STORY
4	(Constraint Satisfactory Problems)?					1,2,1
	(Constraint Satisfactor) (Constraint Satisfactor)					
	N queens Problem     Crypts arithmetic problem					
	3. Map coloring problem					
	3. Map coloring problem					
	4. Sudoku					
	c. 1 and 4 d. 1, 2, 3 and 4					
ALCOHOLOGICA DE	Which one of the following described			and the same above.	a little think had been	red to the contract of
5	Which one of the following doesn't depend upon rationality of agent	1	1	1	1	1.2.1
	a. Action					
	b. Reaction					
	c. Percept Sequence					
	d. Performance measures					
6	Which are formance measures	A STREET, STRE				
0	Which agent deals with degree of happiness?	1	1	1	1	1.2.1
	a. Simple reflex agent					
	b. Model based agent					
	c. Learning agent					
-	d. Utility based agent					
7	A fully observable problem belongs to the category of	I CO-TRACESSOR SANCES	1	1	2	2.1.1
	a. Multi-state problem					
	b. Two-state problem					
	c. Single-state problem					
	d. Not determined					
8	When an agent is responsible for making improvements.	1	1	1	1	1.2.1
	Then it is called as					
	a. Goal agents					
	b. Performance agents					
	c. Learning agent					
	d. Simple agent					
9	Ten teams are playing in a cricket tournament. The winning	1	1	1	2	2.1.1
	team of each match progresses to the next round and the					
	loosing team is out of the game. In the 2nd round, each team					
	plays with the other teams, after which a final round is					
	played. How many matches will be played?					
	a. 15					
	b. 12					
	c. 11					
	d. 16					
10	Consider a scenario, where a student has a set of queries to	1	1	1	2	2.1.1
	be resolved. Among the staff members available in the					
	college, he approaches specific staff members who are able					
	to solve and assist him in resolving the queries. In such a					
	case, the staff member selection would more appropriately					
	mapped to be					
	a. Table-driven agent					
	b. Utility based agent					
	c. Simple reflex agent					
	d. Utility and simple reflex agents					
	Part - B					
	(3 x 5 = 15 Marks)					
Instru	ections: Answer any 3				eminoral of Santara Sa	
11	Describe the types of intelligent agents. Explain any two agents	5	1	1	2	2.1.1
	with example.				and the same of th	and the latest and th
12	What is Constraint Satisfaction Problem. Solve Crypt	5	1	1	2	2.2.3
	Arithmetic Puzzle for the given words. SOME + TIME =					
	SPENT.					
13	Explain the steps involved in simple problem-solving	5	1	1	2	2.1.1
	technique.					
14	Discuss about different types of Al model.	5	1	1	2	2.1.1
	Stocking about different types of the model.					
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Academie Venr: 2022-2023 EVEN

Test: CLAT-1

Course Code & Title: 18CSC305J - Artificial Intelligence

Year & Sem: III/VI

Date: 22.02.2023 **Duration: 50 mins** Max. Marks; 25 marks

Course Articulation Matrix:

CO	POI	PO2	PO3	PO4	PO5	PO6	PO7	POS	PO9	PO10	POH	PO12
COI	M	M	M	M	H	Name of Street, Street	· ·	b and the state of	M	L	romballalalassa.	H
CO2	M	H	H	H	H	¥	A STATE OF THE PERSON NAMED IN COLUMN 1	A CONTRACTOR OF THE PARTY.	M	L	William Street, Street	H
CO3	M	H	H	M	H	Annual State of State	B .		M	L	A CONTRACTOR OF THE PERSON NAMED IN	11
CO4	M	H	M	H	H	3	Real Control of the C	A .	M	L	N .	H
CO5	M	Н	H	H	H	B.			М	L	-	11
CO6	L	Н	М	М	Н				Н	L		Н

#### **Evaluation Sheet:**

Q.No.	Max Marks	Marks Obtained	Q.No.	Max Marks
1	SEASON OF THE PARTY SECTION AND ADDRESS.	ROBERT HA SCHWANGSCHOOL SCHOOL AND	11	1
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10			The state of the s	
TOTAL			TOTAL	

Laster	Part – A (10 x 1 = 10 Marks) actions: Answer all					
Q. No	Question	Marks	BL	СО	PO	P1 Code
1	Agent runs in the cycle of	1	1	1	2	2.1.1
2	Dependent variable based problems are called as a) Structured Problems b) Unstructured problems c) Linear problems d) Non linear problems	1	1	1	2	2.1.1
3	C in Antificial	•	1	1	1	1.2.1

				-	1	1.2.1
4	Which one of the following doesn't depend upon rationality of	1	1	1	1	1.2
	agent				1	
	a) Action	and a			1 10	
	b) Reaction			8	7 1 November 1	188
	c) Percept Sequence					
	d) Performance measures	100				
5	Forward Search Problems are called as	1	1	1	2	2.1.1
	a) Goal directed problems	1				
	b) Data directed problems					
	c) Path directed problems					
	d) None of the above				1971	
6	State space is	1	1	1	2	2.1.2
	a) Representing your problem with variable and	1	-			
	parameter					
	b) Problem you design					
	c) Designing variable and parameter					
	d) Constructing the problem with parameters					
7	An agent is composed of	1	1	1	2	2.1.1
	a) Architecture and Program	7.0				
	b) Perception and Sequence	ap me	1			
	c) Function and architecture	-				
	d) Architecture and perception					
8	The Set of actions for a problem in a state space is formulated	1	1	1	1	1.2.1
	by a					
	a) Intermediate states				05 6 0 0 1	100000
	b) Initial state					
	c) Successor function d) Previous state					
9	/					
,	A process that is repeated, evaluated, and refined is called  a) Diagnostic	1	1	1	1	1.1.1
	, and the same	1000				
	c) Interpretive d) iterative					
10	Which instruments are used for perceiving and acting upon					
10	the environment?	1	1	1	1	1.1.2
						1821-
	a, a constitution					
	b) Sensors					
	c) Perceiver d) Perceiver and Sensor					
	Part – B					
nstru	$(3 \times 5 = 15 \text{ Marks})$ ctions: Answer any 3					
11	Explain the categories of problems in Al with suitable	5	1		-	
"	illustrations.	3	1	1	2	2.1.1
12		5				2.1.
12	Generate state space tree for the following water jug problem.  Given:	3	1	1	2	2.4.1
	01.00					
	Jug 1 – 4 liters of water					
	Jug 2 – 3 liters of water					
	Goal state:					
	Jug 1/Jug 2 – 2 liters of water					
13	Discuss all the 7 problem characteristics with suitable example.	5	1	1	2	2.1.1
	Solve the following crypt arithmetic problem.	5	1	1	•	222
14	FORTY+TEN+TEN=SIXTY	5	1	1	2	2.2.3