Seat No. :	43
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AI-105

April-2022

B.C.A., Sem.-YI

CC-309: Introduction to Al & Machine Learning

Tin	ne : 2	Hours]					[Max. Marks : :	50
Inst	ructio	ns: (1) (2) (3)	Attempt any	ns in Section Two question in Section-II	ons in Se	equal marks. ection-I. pulsory.		
				Sectio	n-I			
1.	(A)	Explain va	rious applicat	ion areas of	Artificia	Intelligence.		10
	(B)	List out for	ur basic kinds	of agent pro	grams a	nd explain any two in	detail.	10
2.	(A)	Discuss the	concept of I	FS and dept	h-limite	d search in detail.	1	10
	(B)	Explain the	working of	* search for	minimi	zing the total estimate	ed solution cost. 1	10
3.	(A)	Discuss the		information	extracti	ion using Finite state		10
	(B)	Write a sho	ort note on Te	classificati	on.			10
4.	(A)	Write a sho	rt note on typ	es of machin	e learni	ng.		10
	(B)	List and exp	olain any ten a	pplication a		nachine learning in re	eal world.	10
5. C	choose	the correct	t option : (An	v Five)				10
) A				o ac to	achieve the best ou	tooma or whon	A.U
	•	ere is uncer		unat acts se	o as to	acineve the best ou	tcome of, when	
	(a)	Rationa	ıl		(b)	Cognitive		
	(c)	Both (a) and (b)		(d)	None of these		
AI-105							P.T	.O.

(2)	in white	is an example of Acutator.							
	(a)	Road	(b)	Steering					
	(c)	Cameras	(d)						
(3)									
	(a)	gents can improve their performance. Tracing	e by_						
			(b)	Tracking					
	(c)	Learning	(d)	None of these					
(4)	search algorithms can do quite well when given some guidance on where to look for solutions.								
	(a)	Informed	(b)	Planning					
	(c)	Both (a) and (b)	(d)	None of these					
(5)	term	cost typically depends on the for memory usage.	time	complexity but can also include a					
	(a)	Optimal	(b)	Search ·					
	(c)	Time	(d)	None of these					
(6)	Unsi	upervised learning is							
	(a)	Task Task	(b)	Data					
	(c)	Environment	(d)	Data Agent					
(7)	1.100. 1.20		` '						
(7)		is likely to lead to a solution quickly	is clo	sest to the goal on the grounds that					
	(a)	Greedy BFS	(b)	Greedy DFS					
	(c)	Both (a) and (b)	(d)	None of these					
(8)	Mac	hine Learning is a subset of	in alter						
1	(a)	Al	(b)	Deep Learning					
	(c)	Neutral Networks	(d)	None of these					
(9)	HIT	s stands for							
	(a)	Hyperlink Induced Topic Search	(b)	Hyperlink Included Task Search					
	(c)	Hyper-loop Infused Topic Search	(d)	None of these					
(10)		problem uses samples from unknown samples.	the d	omain to assign a label or group to					
	(a)	Classification	(b)	Regression					
	(c)	Optimization	(d)	All of these					