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SJ-134

September-2020

B.C.A., Sem.-VI

CC-309: Introduction to Al and ML (New Course)

·		[Max.Marl	cs:50
Time	: Z H	[ours]	
Instr	uction	18: (1) All Questions in Section I carry equal marks. (2) Attempt any TWO questions in Section I. (3) Question 5 in Section II is COMPULSORY.	
		Section – I	
			10
1.	(A)	Explain applications of AI in detail.	10
	(B)	Explain properties task environments.	
	` '		10
2.	(A)	Explain A* Search with example.	10
	(B)	Explain A Search with example. Explain breadth-first search and depth first search with example.	
		What is an information retrieval? Explain PageRank and HITS algorithms. Explain finite-state automata(FSA)	10
3.	(A)	What is an information retrieval? Explain Fagertaint and automata(FSA) Define information extraction Explain finite-state automata(FSA)	for
	(B)		10
		information extraction.	10
		Explain semi-supervised learning and reinforcement learning in detail.	10
4.	(A)	Explain semi-supervised learning and reinforcement learning in detailing in detaili	sea 10
	(B)		10
		learning.	
		Section – II	10
			10
5.	Do a	s directed. (Any Five) Acting rationally is the approach.	
	1.	Parional Agent	
	7	(b) Turing test (c) Laws of thought	
		(d) None of above	
	2.	(d) None of above An agent can be viewed as perceiving its environment through	
	۷٠	(a) Sensors	
		(b) Sensors and Actuators	
		(c) Perceiver	
		(d) None of above	P.T.O.
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SJ-1 :	34		

3.	In Search algorithms, the structure of a node contains components.	7.00
10	(a) State and Parent	
	(b) Action	
	(c) Path-cost	
	(d) All of above	
4.	search strategy is also called as blind search.	
	(a) Simple reflex search	Alt.
	(b) Uninformed search	
4.	(c) Informed search	
	(d) None of these	
5.	is/are example/s of toy problems.	
	(a) Vacuum worlds	
	(b) 8-queens problem	
	(c) 8-puzzle	1
	(d) All of above	
6.	The NLP system takesas an input.	
	(a) Speech	
	(b) Written text	
	(c) Both (a) and (b)	
	(d) None of above	
7.	The Support Vector Machine(SVM) is a/analgorithm.	- requ
	(a) Supervised learning	
	(b) Reinforcement learning.	
	(c) Unsupervised learning	
	(d) None of these	
8.	Theis/are type/s of reinforcement learning.	
	(a) Direct learning	
	(b) Indirect learning	
	(c) Both (a) and (b)	
_	(d) None of above	
9.	is used to improve agent's performance.	
	(a) Learning	
	(b) Omniscience	
	(c) Autonomy	
2570820	(d) None of above The Ni gram models include/s	
10.	Inc id-Right modern	
	(a) unigram	
	(b) trigram (c) bigram	
	(c) bigram(d) All of above	
	(u) All of above	