

USN ACTION FOR THE LOS

15CS562

## Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 Artificial Intelligence

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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		1.000		
		** 71	Module-1  at is Artificial Intelligence? List the task domains of Artificial Intelligence.	(06 Marks)
	1	a. Wha	lain Means – Ends Analysis with an example.	(06 Marks)
		b. Exp	lain Production System.	(04 Marks)
		c. Exp		
			OR	(00 Mandra)
	2	a. Wri	te a note on Water Jug Problem using Production Rules.	(08 Marks)
		h Exp	lain how AND – OR graphs are used in Problem reduction.	(04 Marks) (04 Marks)
		c. Exp	lain Depth – First search algorithm with an example.	(04 Marks)
			Module-2	
	2	o Evn	plain the approaches to Knowledge representation.	(10 Marks)
	3	a. Exp	tinguish Forward and Backward reasoning. Explain with example.	(06 Marks)
)		U. DIS		
			OR	(10 Marks)
	4	a. Wr	ite the Algorithm for conversion to clause form.	(06 Marks)
		b. Wr	ite a Resolution algorithm for Predicate logic.	(00 Marks)
4			Module-3	
5	5	a De	fine Baye's theorem.	(06 Marks)
וומ	3	a. De	plain Dempster – Shafer theory with example.	(06 Marks)
0.		c. Bri	efly explain the motivation for Fuzzy logic.	(04 Marks)
ıına		0. 21.		
2			OR	(06 Marks)
21 50	6	a. Ex	plain Bayesian Networks.	(04 Marks)
bbe		b. De	fine Semantic network with an example.  plain Non-Monotonic logic and Default logic with example. Which are the ty	vo common
n, a		c. Ex	nds of Non-monotonic reasoning defined in these logics?	(06 Marks)
2. Any revealing of identification, appeal to evaluator and 70		KII		
titic			Module-4	(00 Marks)
den	7	a. Ex	aplain the Conceptual dependency representation of an event or action.	(08 Marks) (08 Marks)
of 1		b. W	hat is Script? Write a script for ordering scene in Restaurant.	(06 Marks)
ling			OR	
vea	0	o E3	xplain MINMAX Search procedure.	(08 Marks)
y re	8	a. Ex b. W	rite a note on Iterative deepening.	(04 Marks)
. Ar		c. G	ive the reasons to build large databases.	(04 Marks)
7		v. v		
			Module-5	(08 Marks)
	9	a. W	That is Natural Language Processing? Explain the steps in process.	(08 Marks)
		b. E	xplain Candidate Elimination Algorithm, with example.	
1			OR	(00 75 1
	1	o a. E	xplain Knowledge Acquisition.	(08 Marks)
	•	b. D	viscuss the Spell Checking Techniques.	(08 Marks)

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