## END TERM EXAMINATION

		SIXTH SEMESTER [BCA] SEPTEMBER-OCTOBER 2020				
Paj	per Co	ode: BCA-312 Subject: Artificial Intelligence (Batch 2011 Onwards)				
Tin	nc: 2 I	Hours Maximum Marks: 7	′5			
	Note:	Attempt any three questions including Q.no1 which is compulsory.  Internal choice is indicated.				
Qı	Ans a)	swer the following questions: (5x5=2)  Differentiate between Depth First Search and Breadth first Search Techniques.				
	b) c) d)	What do you mean by Production System? What are the properties of an efficient Knowledge Representation system What is Constraint Satisfaction?	1?			
	c)	What is Turing Test?				
		UNIT-I				
Q2	. a) b)	What do you mean by Artificial Intelligence? How you define problem as state space search? Explain using water jug problem. (20) Write short note on Inferential Knowledge. (5)	а			
		OR				
QЗ	a)	Trace the constraint satisfaction procedure solving the following cryptarthmetic problem. (20)  CROSS	g			
	•	+Roads DANGER				
	Properly write all the steps.					
	b) W	That is Semantic Grammar? Give example. (5)				
	٠	. UNIT-11				
<b>)</b> 4	b) II fa li:	Explain various issues in knowledge representation. (8) llustrate the use of first order logic to represent knowledge for followin acts and use resolution to answer the question "What course would Ranke? (8)	g n			
	ii) iii	Ram likes only easy courses.  i) Engineering Courses are hard.  ii) All courses in Arts are easy.				
	c) W	v) AR04 is an Arts course. What is an Expert System Shell? Describe in brief the various component of Expert System. (9)	s			
		OR				
25	a) Explain with examples the use of "instance" and "is a" attributes. (8)					
	b) W	What do you understand by a frame? How it is useful in knowledge epresentation.	e			
	c) D	Differentiate between top down and bottom up parsing with example. (9)				
)6	Write	UNIT-III e short notes on:				
20	<ul><li>a) Lo</li><li>b) Lo</li><li>c) Lo</li><li>d) H</li></ul>	e short notes on:  .earning by Parameter Adjustment .earning by Macro Operators .earning by chunking .earning by chunking .earning by chunking can be used in chunking? Give Exampleedine Logical Programming in Prolog.				

Q7	a)	What do you understand by Natural Language Processing?	(8)
	•	Discuss in details the various steps involved in Natural understanding.	(8)
	c)	What is the role of Expert System tools in developing expert system example of such a tool and its availability.	tems? Give
		UNIT-IV	

Q8 a) Write a program in LISP to find average of four numbers. (8)
 b) Write a program in any Al Programming Language to find area of square. (8)
 c) Differentiate between LISP and PROLOG (9)

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