Third Year B.C.A (Semester - II) Examination Paper - 15BCA312

Elective :-

Artificial Intelligence

Time : Three hours]	[Full Marks - 60
N.B.: i) All questions car ii) Due credit will b dimensions.	ry equal marks e given to neatness & adequate
iii) Assume suitable	data wherever necessary.
iv) Illustrate your an neat skectches.	swer necessary with the help of
v) Use Blue/Black answer book.	ink/refill only for writing the
Q.1 Choose correct alternativ	re. 5
a) The function name	is used to define function in
LISP.	
i) cond	ii) defun
iii) Both(i)&(ii)	iv) Member
statements of facts ab	
i) Procedural	ii) Declarativeiv) None of these
iii) Heuristic	iv) None of these
c) is a number or s	tring of contiguous or close
characters including t	numbers & special characters
i) Atom	ii) List
iii) String	iv) None of these
d) Default Reasoning is	another form of
i) Monotonic Reas	oning
ii) Non-monotonic	reasoning
iii) Predicate comple	etion
iv) Circumscription	

	e)			
		reasoning.		
		i) Predicate logic ii) Fuzzy logic		
		ii) Propositional logic iv) None of these		
Q.2	a)	What is AI? Explain Importance of Artificial		
		Intelligence. 5	í	
	b)	Explain the knowledge concept with types of		
		knowledge.)	
		OR		
Q.3	a)	Explain the knowledge concept with its importance. 6)	
		Explain the AI related field.	,	
Q. 4	a)	Explain list processing with syntax and numeric		
		function. 5	,	
	b)	Explain syntax and semantics for propositional		
		logic.)	
		OR		
Q.5	a)	Explain the list manupulation function is LISP.)	
	b)	Explain the predicate function with example.	,	
Q.6	a)	Explain the reason maintenance system in brief. 5	,	
	b)	1 3 1		
		in brief.	,	
		OR		
Q.7	a)	Explain this concept of fuzzy logic in brief. 5	,	
	b)	Explain message in object oriented system with types		
		of messages.		

	Q.8		Explain the concept of Blind search with example. Explain the mesaures used for matching.	6 5	
OR					
	Q.9		Explain the Best-First search with example. Explain the Indexing and Retrieval techniques is knowledge organization and management.	56	
	Q.10		Explain the concept of Top-down and Bottom up parsing. Explain the levels of knowledge used in language understanding.	6 5	
OR					
	Q.11		Explain the concepts of Linguistics in brief. Explain the structural representation of grammar and languages.	5 6	
