P	D-11	A.T.	
exam	KOLL	MO.	***************************************

END TERM EXAMINATION

SIXTH SEMESTER [B.TECH] MAY- JUNE 2017

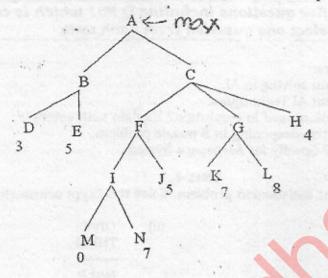
Time:	3 Hours	Maximum Marks: 75	
Note:	Attempt any five questions including	[1] [[[
	Select one question from	each unit.	
(Give short answers:- a) Explain Problem solving in AI. b) Explain different AI Techniques. c) How is Unification used in resolution? Explain interative deepening in 8 puzzle pre) What is PEAS? Specify for Aerospace System	roblem.	
	UNIT-I		
Q2 I	Explain Constraint satisfaction problem. Solv	e the Crypt arithmetic puzzles. (17	
	(i) SOME TIME	GIVE THEM	
	SPENT	HELP	
Q3 I	Explain Hill Climb Search. What is role of pla	teau and ridge in hill climbing?(12.	
	1 3 4 7 2 6 5 8		
	a) Compare Forward Chaining with Backs b) Assume that "Ram is neither hard resolution to prove that Ram does not a	dworking nor intelligent". Using	
Q5 (a) Represent Following facts as predicates	s:- (8)	
	Marcus was man Marcus was a Pompeian		
	All Pompeians were Romans Caesar was Ruler		
	All Romans were either loyal to (Caesar or hated him.	
	Everyone is loyal to someone.		
	 People only try to assassinate Ca Was Marcus loyal to Caesar? If yes, C 		
	chaining.	(4.5)	
	a) Explain Architecture of Expert Systems. Explain Different methods of Theorem Providence		
	 a) Explain Chomosky hierarchy of languages. b) Generate Parse Tree for the sentence 'Jatingrammar:- S→NP VP NP→Noun/prep NP/Noun NP/the NP/Pror 	n went to movie with Beena' using (4)	

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Verb→went/print/create Pronoun→I/We Noun-Jatin/Beena/radio/story

(c) Perform minimax on following tree. Explain each step.

(5.5)



UNIT-IV

Explain different types of learning with examples. Q8

(12.5)

Q9 Explain Application of AI in following AI in following fields:

(a) Robotics

(4)

(b) Aerospace (c) Medical Sciences

(4) (4.5)