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Code	No: 137AP JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABA	AD
B. Tech IV Year I Semester Examinations, December - 2019		
	ARTIFICIAL INTELLIGENCE (Common to ECE, IT) (Standard Research Particular Seminations, December 2015 ARTIFICIAL INTELLIGENCE (Common to ECE, IT) Max. Mar This question paper contains two parts A and B.	Aks: 75
Note	Part A is compulsory which carries 25 marks. Answer all questions in Part A. Par consists of 5 Units. Answer any one full question from each unit. Each question c marks and may have a, b as sub questions.	t B arries 10
AG	AGAGAGAGAG	25 Marks)
1.a)	What is turing test?	[2] [3]
b)	Define AI. Write the applications of AI. Define Modus Ponen's rule in Propositional logic.	[2]
c) d)	Write the following in a predicate logic.	
u)	There is a barber who shaves all men in town who do not shave themselves	A A
\triangle (e)	No person likes a professor unless the professor is smart What is ontology in Al?	[3]\ [2] [3]
f)	What do you mean by Knowledge representation?	[2]
g)	Quote an example for planning graph. What is the significance of planning in AI systems?	[3]
h) i)	What is Bayes' rule and write its use?	[2]
.j)	Define uncertainty. What is prior probability and conditional probability?	[3]
AG"	$\triangle G \triangle G \triangle G \triangle AG$	50 Marks)
2 \	What is an intelligent agent? Write the structure of intelligent agent?	
2.a)	Write about Breadth first search algorithm?	[5+5]
b)	OR	(8)
△ (3.a)	From the AI literature to write whether or not the following tasks can currently by computers: i) Playing a decent game of table tennis (ping-pong).	pe solved
	ii) Playing a decent game of bridge at a competitive level.	
	iii) Discovering and proving new mathematical theorems.	
	iv) Writing an intentionally funny story.	
	v) Giving competent legal advice in a specialized area of law.	
A /3.	" The state of the	$he \wedge \wedge$
A(1)	Would a bidirectional A* search be a good idea? Under what conditions would in applicable? Describe how the algorithm would work.	[3+7]
4.	Explain in detail about adversarial search. OR	[10]
5.	What is constraint satisfaction problem and explain with an example how i	t is solved
	through back propagation search.	[10]
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