**P264** 

SEAT No.:	
-----------	--

[Total No. of Pages: 2

## OCT.-16/BE/ Insem. -146 B.E. (E & TC) ARTIFICIAL INTELLIGENCE (2012 Pattern)

		(2012 Tattern)	
	: 1 H uction 1) 2)	four] [Max. Marks:  ns to the candidates:  Figures to the right indicate full marks.  Assume suitable data if necessary.	30
Q1)	a)	What is Artificial Intelligence? List the applications of Artific Intelligence.	cial <b>[5]</b>
	b)	Name four kinds of agent that embody the principles underlying intelligence system. Discuss any one in detail.	all <b>[5]</b>
		OR	
Q2)	a)	Explain bidirectional search strategy also explain the limitations of it.	[5]
	b)	Write a note on "PEAS"	[5]
Q3)	a)	Explain greedy best first search algorithm with pseudo code.	[5]
	b)	Explain simulated annealing hill climbing algorithm.	[5]
		OR	
Q4)	a)	Explain constraint propagation in detail with example.	[5]
	b)	Explain mimax search algorithm with pseudo code.	[5]
Q5)	a)	Explain first order logic symbols with suitable example.	[5]
	b)	Explain the Backward reasoning algorithm. How proof tree is used Backward reasoning algorithm.	
		OR	

*P.T.O.* 

- **Q6)** a) Represent the following sentences by first order logic calculus. [5]
  - i) Some dogs bark
  - ii) All dogs have four legs
  - iii) All barking dogs are irritating
  - iv) No dogs purr
  - v) Students are people who are enrolled in courses
  - b) Compare forward and backward chaining algorithm.



[5]