Total No. of Questions : 4]	90	SEAT No.:
PC122		[Total]

Total	No.	of	Pages	:	1

[6360]-128

T.E. (Artificial Intelligence and Data Science) (Insem) ARTIFICIAL INTELLIGENCE (2019 Pattern) (Semester - I) (310253)

Time	:1	Hour] [Max. Marks	: 30
		ions to the candidates:	
	1)	Answer Q1 or Q2, Q3 or Q4.	
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.	
	<i>3</i>)	Figures to the right indicate full marks.	
	<i>4</i>)	Assume suitable data, if necessary.	
Q 1)	a)	Define Artificial Intelligence. State and explain the four approache	s of
~ /	,	Artificial Intelligence?	[5]
	b)		
		Agent.	[5]
	c)	Enlist the advantages of Artificial Intelligence.	[5]
		OR	
<i>Q2)</i>	a)	What is an Environment for an agent? Explain various types	of
		Environments.	[5]
	b)		
	,	programs.	[5]
	c)		\sim
		following systems.	[5]
		i) A Vacuum Cleaner world system	
		ii) Interactive English Tutor system)
<i>Q3</i>)	٥)	Define problem? Write & explain the five components of Well-defi	nad
<i>Q</i> 3)	a)	problem.	[5]
	b)	1 1 1	[4]
	c)	No. 1. The second secon	
	•)	and plateau for an example.	[6]
		OR OR	[v]
<i>Q4</i>)	a)	Explain A* algorithm with suitable example.	[5]
Á	b)	What is Heuristic function?	[4]
L	c)	Explain Depth-limited search and Iterative deepening depth-first sear	
		Compare both search strategies w.r.t. Completeness, Optimality, Sp	
		Complexity and Time Complexity.	[6]

