Total No. of Questions : 4]	200	SEAT No. :
PA-10313		[Total No. of Pages : 1

[6009]-438 T.E. (Computer Engineering) (AIML) (Insem) ARTIFICIAL INTELLIGENCE (Honors)

(2010 Pattern) (Semester-II) (310303)

(2019 Lattern) (Semester-11) (310303)			
Tr: 1			
Time: 1			
Instructi	ons to the candidates:		
1)	Answer Q.1 or Q.2, Q.3 or Q.4.		
2)	Neat diagrams must be drawn wherever necessary.		
3)	Figures to the right indicate full marks.		
<i>4</i>)	Assume suitable data, if necessary.		
Q1) a)	Explain the following terms [5]		
2 / 11/	i) Covariance		
	Figures to the right indicate full marks. Assume suitable data, if necessary. Explain the following terms i) Covariance ii) Correlation Coefficient		
	iii) Chi Square		
b)	What is Artificial Intelligence? How is it different from Machine Learning?[5]		
c)	What is Rationality? Describe Ideal Rational Agent. [5]		
ŕ	OR		
Q2) a)	What is the relationship between Covariance, Correlation Coefficient,		
2-) u)	Chi Square? [5]		
b)	b) How is the task environment specified? Write the PEAS description of		
·	the task environment for an automated taxi.		
c)	What are the four kinds of basic Agent Programs? Explain any in		
,	detail. [5]		
Q3) a)	List and explain any 2 problems that fall in the category of constraint		
	satisfaction problems. [5]		
b)	Solve the CSP (crytarithmatic problem) SEND+MORE=MONEY. [5]		
c)	Explain the A* algorithm in detail. [5]		
	OR CANAL CONTRACTOR OF THE CON		
Q4) a)	What are the different types of Local Consistency in CSP. [5]		
b)	Explain the following functions in relation to A* algorithm f, g and h.[5]		
c)	What is Hill Climbing Search? Explain the following concepts w.r.t Hill		
- /	Climbing Search. Local maxima, Global maxima, Ridge, Plateau. [5]		



