Total No. of Questions: 10]		SEAT No.:	
P3849	[5561] 277	[Total No. of P	ages: 2

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B.E. (Computer Engineering) SMART SYSTEM DESIGNAND APPLICATIONS (2012 Pattern) (Semester - I)

Time	e : 25	/2 Hours [Max. Marks	: 70
		ons to the candidates:	
	1)	Neat diagrams must be drawn wherever necessary.	
	2)	Figures to the right indicate full marks.	
	3)	Assume suitable data if necessary.	
Q1)	a)	What are various agent environments? Give PEAS representation an agent.	fo1
	b)	Explain game theory and knowledge structure.	[6]
	c)	Explain the hardware requirements for robotics?	[4]
		OR	
Q2)	a)	Define problem formulation? Describe the components of problem we suitable example.	vith [8]
	b)	Explain rote learning with example.	[6]
	c)	Write short notes on Kalman Filters.	[4]
Q3)	a)	Explain support Vector Machine with issues and applications.	[4]
	b)	Compare and contrast propositional logic and FOL.	[6]
	c)	What is Expert System? List out application of expert system?	[4]
		OR	
Q4)	a)	Explain Role of NLP in Al.	[4]
	b)	What is baye's rule? State its application.	[6]
	c)	What is propositional logic? Explain with example.	[4]
Q5)	a)	What is prior probability and posterior probability? Explain with suita example.	ıble [6]
	b)	Explain iterative deepening depth search algorithm with its function.	.[8]
		OR	

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Q6) a)	What are the basic axioms of probability? Explain how to derive the useful facts from the basics axioms with suitable example. [8]	
b)	How to represent and evaluate decision problem with a decision network. [6]	
Q7) a)	What is supervised learning? Explain any one. [6]	
b)	Write a note on Robotics software architecture. [6]	
	OR	
Q8) a)	Explain in brief language models with suitable examples. [6]	
b)	Explain and draw a decision tree for deciding whether to wait for a table if a restaurant currently has no free tables. [6]	
Q9) a)	Explain in details the components that help in reconstructing the worl in 3D.	
b)	Enumerate and explain the different edge profiles using in edge detection. [6]	
	OR	
Q10) a)	What are the basic inference task that must be solved in a generic temporal model. [6]	
b)	List application domains of robotics. Explain any one in detail. [6]	

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