NOV 2015

Total No	o. of Q	uestions		10]	
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SEAT No. :	
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P1879

[4859]-1072

[Total No. of Pages : 2

B.E. (Computer Engineering) SMART SYSTEM DESIGN AND APPLICATIONS (2012 Course) (End-Semester) (410443) (Semester-I)

	(2012 Course) (End-Semester) (410443) (Semes	ter-1)
	/ ₂ Hours] ons to the candidates:	[Max. Marks: 70
1) 2) 3)	Attempt Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6, Q. 7 or Q. 8, an Neat diagrams must be drawn wherever necessary. Assume suitable data, if necessary.	nd Q. 9 or Q. 10.
<i>Q1)</i> a)	Explain the architecture of a general learning agent.	[6]
b)	Explain any two local search algorithms.	[6]
c)	Explain the procedure for conversion of FOL to CNF w	rith example.[8]
Q2) a)	Explain any three foundations of intelligent systems?	[6]
b)	Describe effectiveness of a alpha-beta pruning.	[6]
c)	Write a note on planning graphs.	[8]
Q3) a)	Explain the baye's rule and its use with a suitable examp	le. [6]
b)	Explain Bayesian networks with a suitable example. OR	[6]
Q4) a)	Write a note on Hidden Markov Models.	[6]
b)	Explain the construction of Dynamic Bayesian Networks example.	s with a suitable [6]
Q5) a)	Explain any one supervised learning approach.	[6]
b)	Explain Nonparametric Models.	[6]

Q6)	a)	Write a note Artificial Neural Networks.	[6]
	b)	Explain Ensemble Learning.	[6]
Q7)	a)	What are the Information Retrieval characteristics? How to Evaluate a Refine Information Retrieval system.	ind [6]
	b)	Explain the procedure for Machine translation.	[6]
		OR	
Q8)	a)	Describe Robotic Perception in brief.	[6]
	b)	Write a note on Robotic Software Architectures.	[6]
Q9)	a)	Describe the Basis of Utility Theory.	[6]
	b)	How to Evaluate and Choose the Best Hypothesis.	[8]
		OR	
Q10,) a)	How to Represent and Evaluate decision problem with a decision netwo	rk. [6]
	b)	Explain any four prime application domains of robotics technology.	[8]