No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY BCA Examination, 3rd Semester Friday, Date: 22/11/2013 Session: Evening Time: 02:30 pm to 04:30 pm Code: US03EBCA02 Subject: Introduction to Artificial Intelligence

(80)

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Total Marks: 70

- /	Multiple Choice Question		
1)	Medicel diagnosis is a		
	a Expert Task	b) Mundane Task	
	c Formal Task	d) None of These	
2)	Perceptions is a		
	a Formal Task	b) Mundane Task	
	c Expert Task	d) None of These	
3)	The test in which the computer mimics a human and tries to fool other		
	humans is called		
		b) Artificial Intelligence Test	
	c] The Turning Test	d) None of These	
4)	Inferring facts from existing data is also known as		
		b) Learning	
	c Acquisition	d) Reasoning	
5)	Which of the following is a Knowled		
	a META-DENDRAL	b) DENDRAL	
	c MYCIN	d) XCON	
6)	use symbolic representations for knowledge.		
	a Inference Engine	b) Expert System	
	c Expert Shell	d) Knowledge Base	
7)	Which of the following will find the	best goal state?	
	a) Bidirectional Search	b) Breadth-First Search	
	c) Best-First Search	d) Depth-First Search	
8)	denotes relations or functional mapping from the elements of		
	a domain to the values True or False.		
	ai Constants	b) Variables	
	ci Functions	d) Predicates	
9)	An assembly line is example of	type of robot.	
	al Manipulator	b) Mobile	
	c) Hybrid	d) All of These	
10)		abel applied to a linguistic concept	
	which has no precise boundary.	· · · · ·	
,	a) Fuzzy Logic	b) Fuzzy Set	
	c) Crisp Set	d) None of These	

P.T.O

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·	Answer the following short question (Any 10)	[20]
1)	List any two definitions of AI.	1
2)	List the Task domain of AI.	
3)	What id DENDRAL?	
4)	What is an Inference engine?	
5)	Explain the network representation scheme.	
6)	Explain the logical representation scheme.	
7)	State the connectives of FOPL.	
8)	What is Depth-limited search?	
9)	State the difference between informed and uninformed searches.	
10)	State any two problems with Robots.	
11)	What is Fuzzy logic?	
12)	What is Fuzzy sets?	
Q3)	Write a note on History or AI.	[10]
	OR	
Q3)	Write a note on AI and related fields.	[10]
Q4)		
A)	Write a note on the characteristic features of an expert system.	[05]
B)	Write a note on knowledge representation.	[05]
	OR	
Q4)		
A)	Write a note on Knowledge acquisition.	[05]
B)	What is an Expert shell and explain in detail.	[05]
Q5)		
A)	What is informed search strategy? Explain the Best first search algorithm.	[05]
B)	Write a note on Depth-First Search and bidirectional search.	[05]
•	OR	
Q5)		
A)	What is breadth first search strategy?	[05]
B)	Write note on different syntax of predicate logic.	[05]
Q6)		
A) '	Write a note in Natural Language Processing (NLP).	[05]
B)	Write a note on Crisp sets.	[05]
06	OR	
Q6)	Write a note on Robotics.	[0/7]
A) B)	Write a note on Game playing.	[05]
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	-:: ALL THE BEST ::-	

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