USN										

Internal Assessment Test 2 – October 2018

Sub:	Artificial Intelligence					Sub Code:	15CS562	Branch:	CSE	
Date:	17/10/2018 AN	Duration:	90 min's	Max Marks:	50	Sem / Sec:	5/ A,B And C		OBE	

	Answer any FIVE FULL Questions	MARKS	CO	RBT
1 (a)	Distinguish Non-monotonic reasoning from monotonic reasoning with an example.	[04]	CO2	L2
(b)	Summarize the two logic approaches of non-monotonic reasoning	[06]	CO2	L2
2 (a)	A problem solving search can proceed either in a forward or in a backward direction. List the factors that determine the choice of direction for a particular problem.	[04]	CO2	L1
(b)	Summarize the steps used to convert propositions to clause form.	[06]	CO2	L2
3 (a)	Consider the following sentences : 1. John likes all kinds of food, 2. Apples are food, 3. Chicken is food, 4. Anything anyone eats and isn't killed by is food, 5. Bill eats peanuts and is still alive, 6. Sue eats everything bill eats. Translate these sentences into formulas in predicate logic and prove "John likes Peanuts" using backward chaining	[06]	CO2	L3
(b)	Apply resolution technique to answer the question "What food does Sue eat?"	[04]	CO2	L3

USN										

Internal Assessment Test 2 – October 2018

Sub:	Artificial Intelligence					Sub Code:	15CS562	Branch:	CSE	
Date:	17/10/2018 AN	Duration:	90 min's	Max Marks:	50	Sem / Sec:	5/ A,B And C		OBE	

	Answer any FIVE FULL Questions	MARKS	CO	RBT
1 (a)	Distinguish Non-monotonic reasoning from monotonic reasoning with an example.	[04]	CO2	L2
(b)	Summarize the two logic approaches of non-monotonic reasoning	[06]	CO2	L2
2 (a)	A problem solving search can proceed either in a forward or in a backward direction. List the factors that determine the choice of direction for a particular problem.	[04]	CO2	L1
(b)	Summarize the steps used to convert propositions to clause form.	[06]	CO2	L2
3 (a)	Consider the following sentences : 1. John likes all kinds of food, 2. Apples are food, 3. Chicken is food, 4. Anything anyone eats and isn't killed by is food, 5. Bill eats peanuts and is still alive, 6. Sue eats everything bill eats. Translate these sentences into formulas in predicate logic and prove "John likes Peanuts" using backward chaining	[06]	CO2	L3
(b)	Apply resolution technique to answer the question "What food does Sue eat?"	[04]	CO2	L3

4 (a)	Interpret the need of unification algorithm with an example.	[04]	CO2	L2
(b)	Define Bayes theorem and discuss about the three cases of constructing certainty factor.	[06]	CO2	L2
5 (a)	Distinguish declarative and Procedural knowledge	[04]	CO2	L2
(b)	Prove the innocence of Babbitt in the ABC crime investigation problem using JTMS.	[06]	CO2	L3
6 (a)	Identify the rules to convert the logic into PROLOG representation.	[04]	CO2	L2
(b)	Discuss about Minimalist Reasoning with an example	[06]	CO2	L2
7 (a)	Construct the partitioned semantic net representation for the following: Every batter hit a ball All the batters like the pitch	[06]	CO2	L3
(b)	Construct the predicate logic for the following sentences: • John only likes to see French movies • It's safe to assume a movie is American unless explicitly told otherwise. • The playhouse rarely shows foreign films. • People don't do things that will cause them to be in situations that they don't like	[04]	CO2	L3

---

4 (a)	Interpret the need of unification algorithm with an example.	[04]	CO2	L2
(b)	Define Bayes theorem and discuss about the three cases of constructing certainty factor.	[06]	CO2	L2
5 (a)	Distinguish declarative and Procedural knowledge	[04]	CO2	L2
(b)	Prove the innocence of Babbitt in the ABC crime investigation problem using JTMS.	[06]	CO2	L3
6 (a)	Identify the rules to convert the logic into PROLOG representation.	[04]	CO2	L2
(b)	Discuss about Minimalist Reasoning with an example	[06]	CO2	L2
7 (a)	Construct the partitioned semantic net representation for the following: Every batter hit a ball All the batters like the pitch	[06]	CO2	L3
(b)	Construct the predicate logic for the following sentences: • John only likes to see French movies • It's safe to assume a movie is American unless explicitly told otherwise. • The playhouse rarely shows foreign films. • People don't do things that will cause them to be in situations that they don't like	[04]	CO2	L3