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Roll No.	Total No. of Pages : 02
Total No. of Questions : 18	
B.Tech (CSE) (Sem.–7)	
SLLP	
Subject Code : CS-402	
Paper ID : [A0480]	

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly :

- 1. What do you understand by syntax and semantics?
- 2. Differentiate between prepositional and Predicate Logic
- 3. Explain recursion with an example.
- 4. Explain Fuzzy logic.
- 5. Difference between Existential and Universal quantifier.
- 6. Explain First order Logic.
- 7. What are Horn Clauses in Prolog?
- 8. State the advantage of horn clause.
- 9. What do you mean by Resolution?
- 10.Differentiate between induction and recursion.



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SECTION-B

- 11. Differentiate between cut and negation.
- How would knowledge using Propositional Logic. 12.
- 13. In context of propositional logic define the following :
 - a) Literals
 - b) Well formed formulae
- 14. Write a program to find factorial of a numbers using Prolog.
- 15. Prove the following equivalences using truth tables.

 $\neg (P \lor (\neg P \land Q)) \equiv (\neg P \land \neg Q)$

SECTION-C

- Discuss various Learning methods in Neural Network. 16.
- se in Discuss the importance of Horn Clause in logic programming. 17.
- Write a note on : 18.
 - a) Neural Networks
 - b) SLD Tree.