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**Department of Computer Science & Engineering**

**MODULE -2**

**KNOWLEDGE REPRESENTATION**

1. What is “Matching” in rule based system? Briefly explain different proposals for matching.
2. Consider the following set of well formed formulas in predicate logic:
3. Man (Marcus)
4. Pomeian (Marcus)
5. ⩝x : Pomeian (x) 🡪 Roman (x)
6. Ruler ( Caeser)
7. ⩝x : Roman (x) 🡪 loyalto (x, caeser) v hate (x, caeser)
8. ⩝x : y loyalto (x,y)
9. ⩝x : ⩝y Man(x) ˄ Ruler (y) ˄ tryassassinate (x,y) 🡪 loyalto (x,y)
10. Tryassassinate (Marcus, Caeser).

Convert these into clause form and prove that hate (Marcus, caeser) using resolution proof.

1. What are properties of good system for the representation of knowledge? Explain different approaches to knowledge representation.
2. List and explain the issues in knowledge representation.
3. Write a note on control knowledge.
4. Distinguish forward and backward reasoning explain with example.
5. Explain the frame problem.
6. Write the algorithm for conversion to clause form.
7. Define Horn clause and give the syntactic difference between PROLOG and logic.
8. Write the algorithm to unify (L1, L2).
9. Write a note on conflict resolution.