



**Code No: R1931054**

**R19**

**SET - 1**

**UNIT-IV**

7. a) Illustrate knowledge representation using Semantic network with a suitable example. [8M]  
b) Explain different Prolog facts. (At least seven). [7M]

**(OR)**

8. a) Define frames. Explain knowledge representation using frames. [8M]  
b) List and explain conceptual primitive actions (at least seven). [7M]

**UNIT-V**

9. a) Outline the characteristics of Expert Systems. [8M]  
b) Define certainty factor theory. Explain the various components of certainty factor. [7M]

**(OR)**

10. a) Explain any two fuzzy propositions with examples. [8M]  
b) Illustrate the functional operations in fuzzy expert system. [7M]

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