F.M:- 22.5

1. a. Describe fuzzy relation and composition of fuzzy relation with a suitable example. (7.5)

Or

b. Briefly describe neuro genetic hybrid system. (7.5)

2. Describe fitness function in genetic algorithm with an example. (5)

3. Explain fuzzy union, fuzzy intersection and fuzzy complement. (5)

4. Check whether the following statement is tautology or not. (5)
   $[(p \rightarrow q) \wedge \sim q] \rightarrow \sim p$

5. Explain different types of crossover technique in GA. (5)

6. Write short note on fuzzy-neuron. (5)