

## ABES Engineering College, Ghaziabad Affiliated to Dr. A.P.J Abdul Kalam Technical University, Lucknow

## **Department of CSE-Data Science**

Assignment No.2  Subject: Application of Soft Computing (KCS-056)  Submission Date: 24.11.2023 (Friday)					
			Faculty Name: Ms. Shreya		Sem & Section: 3 <sup>rd</sup> & A,B,C
Note: Attempt all Five Questions		5*4=20			
Q. No	Questions				
1	Explain Back Propagation algorithm and factors that may affect the back propagation neural network.				
2	Explain Fuzzy relations and fuzzy to crisp conversion in detail.				
3(a)	Discuss in detail how crisp logic is different from fuzzy logic.				
3(b)	Consider set $X = \{2,4,6,8,10\}$ . Find its power set, cardinality, and cardinality of power set.				
4	Explain the different types of operations used in fuzzy sets with suitable examples.				
5	Explain crisp relation and fuzzy relation also write down different operations performed in these two relations.				