Model Institute of Engineering & Technology (Autonomous)

(Permanently Affiliated to the University of Jammu, Accredited by NAAC with "A" Grade)

ASSIGNMENT – 2　　　　　　　　　　**Max. Mark:10**
COM-701©- Soft Computing
Date of Submission: 18-11-2023

Questions	Course Outcomes	Skill	Bloom's Level
Q1	**CO1-**Identify intelligent systems leveraging the paradigm of soft computing techniques.	**Understanding**	1
Q2	**CO4-** Develop the knowledge of genetic algorithm concepts and their applications.	**Applying**	3
Q3	CO5 Evaluate the hybrid system to revise the principles of soft computing in various.	**Applying**	3

1. What are hybrid systems, explain difference between sequential, embedded, and Auxilary hybrid systems with real-time applications. (3 marks)

2. Explain the following in detail: (3 marks)

   - GA Convergence

   - Multiple encoding techniques

   - Bitwise operations and multi-level optimization in Genetic Algorithm.

3. Explain the workflow and application: (4 marks)

   i. Neuro-Fuzzy Hybrid Systems

   ii. Neuro-Genetic Hybrid Systems

   iii. Fuzzy-Genetic Hybrid Systems.