

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

Test 2 EXAMINATION- May 2023

PhD 1st Semester (Department of Mathematics)

COURSE CODE: 17P1WMA112

MAX. MARKS: 25

COURSE NAME: Intuitionistic Fuzzy Set Theory and Similarity Measures

COURSE CREDITS: 3

MAX. TIME: 90 mins

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Use of scientific calculator is allowed.

1. Discuss various binary operations on Intuitionistic Fuzzy sets with examples for each. (6)
2. Explain three distance measures between the Intuitionistic Fuzzy Sets in regard of 3-term approach with the help of one example for each. (6)
3. What are various similarity measures and discuss their relation to the various distance measures? Explain in detail with examples. (7)
4. Explain the process of ranking of the intuitionistic fuzzy alternatives. (6)
