

**TRIPLED FIXED POINT THEOREMS IN N -CONE METRIC
SPACE UNDER F -INVARIANT SET**

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Abstract: A notion of an F -invariant in N -cone metric space is introduced and we prove some fixed point results for mappings satisfying certain contractive conditions under the concept of c -distance. Our results complement and extend well known results in the literature.

Keywords and Phrases: N -cone metric space, contractive mappings, fixed point.

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1. Introduction

The notion of cone metric space was introduced in [6]. Huang and Zhang replaced the real numbers by ordering Banach space and defined cone metric space. They also gave an example of function which is contraction in the category of cone metric but not contraction if considered over metric spaces and hence by proving fixed point theorem in cone metric spaces ensured that this map must have a unique fixed point.