

FIXED POINT THEOREMS FOR EXPANSIVE MAPPINGS IN G_p -METRIC SPACES

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ABSTRACT. In the present paper, we adopt the concept of expansive mapping in the context of G_p -metric spaces in a similar manner expansive mapping in metric spaces. Furthermore, we obtain some results on fixed points of expansive type mappings. Also, we prove some common fixed point results for expansive mappings by using the notion of weak compatibility in G_p -metric space. Our results generalize some comparable results in metric spaces and partial metric spaces to G_p -metric spaces. Moreover, some examples are introduced in order to support our new results.