International J. of Math. Sci. & Engg. Appls. (IJMSEA) ISSN 0973-9424, Vol. 5 No. IV (July, 2011), pp. 25-34

A COMMON FIXED POINT THEOREM IN MENGER PQM SPACES USING PROPERTY (SBS)

K. P. R. SASTRY, CH. SRINIVASA RAO, R. VENKATA BHASKAR AND S. S. A. SASTRI

Abstract

In this paper, we introduce the notion of property (SBS) for a family of nonnegative distribution functions. Using this property we prove a common fixed point theorem for four self mappings on a Menger PQM space. Our result substantially improves the result of Somayeh Ghayekhloo and Shaban Sehghi [8].

Key Words and Phrases : Menger PQM space, Fixed point theorem, Property (E.A), Property (SBS).

2010 AMS Subject Classification : 47H10, 54H25, 55M20.

@2011 Ascent Publishing House