A FIXED POINT THEOREM ON CONE METRIC SPACES WITH NEW TYPE CONTRACTIVITY

ISHAK ALTUN[1*], MUJAHID ABBAS[2] AND HAKAN SIMSEK[3]

Communicated by M. A. Japón Pineda

ABSTRACT. In the present work, a common fixed point theorem for self maps on cone metric spaces is proved. Also two examples, which shows that our main theorem is generalized version of main theorems of [A. Branciari, Int. J. Math. Math. Sci., 29 (2002), no. 9, 531–536] and [L.G. Huang and X. Zhang, J. Math. Anal. Appl. 332 (2007), no. 2, 1468–1476], are given.

[1,3] Department of Mathematics, Faculty of Science and Arts, Kirikkale University, 71450 Yahsihan, Kirikkale, Turkey.

   E-mail address: ishakaltun@yahoo.com

   E-mail address: hsimsek@kku.edu.tr

[2] Department of Mathematics, Lahore University of Management Sciences, 54792-Lahore, Pakistan.

   E-mail address: mujahid@lums.edu.pk