A COMMON FIXED POINT OF TWO SELFMAPS SATISFYING GENERALIZED (ψ, ϕ)-WEAKLY CONTRACTIVE CONDITION OF INTEGRAL TYPE WHERE ϕ IS NONDECREASING (NOT NECESSARILY CONTINUOUS OR LOWER SEMICONTINUOUS)

K. P. R. SASTRY[1], G. V. R. BABU[2] AND K. T. KIDANE[3]

[1]8-28-8/1, Tamil Street, Chinna Waltair,
Visakhapatnam - 530 017, India
[2] [3] Department of Mathematics, Andhra University,
Visakhapatnam - 530 003, India

Abstract

In this paper we introduce generalized (ψ, ϕ)-weakly contractive condition of integral type for two selfmaps in which ψ is continuous and nondecreasing and ϕ is nondecreasing but not necessarily either continuous or lower semicontinuous, and we prove a common fixed point result for two selfmaps in a complete metric space. An example is given in support of the main result of the paper.

_____