1011-34-377 **Bonita A. Lawrence*** (lawrence@marshall.edu), Marshall University, Department of Mathematics, One John Marshall Drive, Huntington, WV 25755-2560, and **Basant Karna** (karna@marshall.edu), Marshall University, Department of Mathematics, One John Marshall Drive, Huntington, WV 25755-256. *An Existence Result for a Multi-Point Boundary Value Problem on a Time Scale.* Preliminary report.

Utilizing the work of Krasnosel'skii and Zabreiko we can verify the existence of nontrivial solutions to the second order boundary value problem

$$y^{\Delta\Delta} + f(y^{\sigma}) = 0$$

with three point boundary conditions

$$\begin{aligned} y(0) &= 0, \\ y(p) - y(\sigma(1)) &= 0, \end{aligned}$$

defined on a time scale $\mathbb{T}$ such that $t \in \mathbb{T} \cap [0,1]$ and $0 < p < 1$. The goal of this work is to expand this result to multi-point boundary value problems. (Received August 30, 2005)