J. Exp. Zool. India Vol. 14, No. 1, pp. 253-257, 2011 *ISSN 0972-0030*

HISTOPATHOLOGICAL AND HISTOCHEMICAL CHANGES IN THE MIDGUT OF *CYBISTER CONFUSUS* SHARP (DYTISCIDAE:COLEOPTERA)

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(Accepted 18 Deccember 2010)

ABSTRACT – In the present study the effects of sub-lethal doses of DDT and EDTA have been assessed on the histopathology and histochemistry of the midgut of *Cybister confusus* Sharp, after the exposure for 7 days. Exposure to DDT caused severe damages to the midgut epithelium and midgut crypts became highly pronounced. Where as in case of EDTA almost total disintegration of epithelium and the invasion of regenerative cells was observed. Crypts were found to be more pronounced. Muscular layer also showed atrophy. DDT and EDTA also adversely affected the histochemistry of the different layers of the midgut. Protein showed a sharp declination in different layers.

Keywords : Toxicants, histopathology, histochemistry, midgut, *cybister confusus*.