



NEEM: A SAFE ALTERNATIVE TO SYNTHETIC PESTICIDAL PROPERTIES FOR CALLOSBRUCHUS MACULATUS

Mosmee Meena¹ , Surabhi Shrivastav²

¹Department of Zoology, J.D.B. Govt. Girls College Kota, Kota (India)

²Co-ordinator Department of wild life Science, university of Kota, Kota (India)

ABSTRACT

Pesticides have contaminated almost every part of environment .They are now found as common toxic residues in soil, air, water and non-target vegetation, posing threat to plants and animal ranging from beneficial soil micro organism to non-target plant and animal species, such as, beneficial insects, fishes, birds and wild life etc.

In recent years, use of many of the former synthetic insecticides has been limited. It is due to lack of novel insecticides, high cost of synthetic insecticides, concern for environment al sustain ability, harmful effect on human health and other non-target populations. Thus, this study is aimed at search of an eco-friendly pesticide in neem seed extract against Callosobruchus maculatus in stored cowpea seed.

The application of eco-friendly alternatives such as neem has become the central focus of the control programme lieu of the chemical insecticides. Azadiracta indica is significant quantities at 0.06% and 0.02% concentrations weremore effective through which percent seed protection was 96.06 and 76.01 in ether extracts at minimum 100% mortality and 50% mortality respectively.

Key Words: *Callosobruchus Maculatus, Azadiracta Indica.*