

# SUMMARY

The present research work was carried out to investigate the effect of various levels of ascorbic acid on growth and survival of fish. Fresh water farmed fish *Labeo rohita* was used as an experimental animal.

The fish were collected from Department of Fisheries, Manawan Hatchery, Lahore. They were acclimated in stocking tank for one week prior to experiment. During acclimation, fish were fed with feed containing rice polish, fishmeal, protein and starch.

The experiment was conducted by using 4 sets of glass aquaria, each set containing 3 aquaria and each aquarium containing 15 fish and 56 Litre water. For four sets of aquaria four treatment of ascorbic acid i.e. 0mg/kg, 100mg/kg, 300mg/kg and 500mg/kg of basal diet were used which was given in pelleted form. Before the start of experiment weight of fish, pH, temperature and dissolved oxygen of water was recorded and continuous aeration was provided during the course of experiment. Sampling was done weekly and the weight and survival of fish was recorded. The experiment was conducted for 10 weeks.

The collected data was analyzed statistically for analysis of variance using randomized complete block design. The results showed that different levels of ascorbic acid has no effect on survival and growth of *Labeo rohita* at  $P < 0.05$ . However, a period of 10 weeks has shown a significant reduction in survival and growth of fish.