

Effect of Copper Sulphate on the Regulation of Nitrogen Metabolism in the *Rita rita* Fish

¹Government M.L.B Girls P.G Autonomous College, Bhopal, Madhya Pradesh, India

²Institute for Excellence in Higher Education, Bhopal, Madhya Pradesh, India

³Institute for Microbiology and Biotechnology, Bhopal, India

Effect of copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$) to (catfish) species was investigated using toxicity index of 96 hours LC50 and the quantal response determined by the statistical probit analysis method. In response to the lethality of the copper toxicant, behavioral anomalies (locomotor response) of the exposed fish species were studied as indication of toxic effects of the heavy metal. Fish species shows different mortality responses to the varying concentrations of copper sulphate studied (10-50 ppm) due to toxicity. Copper was significantly (no overlap in 95% C.L. of 96 hrs LC50 values) more toxic to fish. 96 hrs LC50 values were revealed to be 34 mg/l. On termination of

