ABSTRACT

Experiment was conducted in Phycology Lab Department of Botany, Government College

University Lahore, to investigate the effect of freshwater algae on the seedling and vegetative growth of Brassicaceae oleraceae L. Var. Madhuri and Pelican. Different concentrations of FLF (25%, 50%, 75%, 100% and control) were prepared. The parameters like GP, MGT, GI, GE, and SVI were measured. In in-vitro experiment, the readings like GP. GM, GE, MGT and SVI were maximum at 100% FLF concentrations. The chlorophyll content, photosynthetic efficiency, plant growth rate, nitrogen content, crude protein content and epicotyl length were maximum at 100% FLF concentration for Brassica oleraceae L. Var. Madhuri & Pelican. In ex-vitro experiment, 75% FLF concentration proves effective in increasing TSL, RL, SL, and FW as compared to 25%, 50% & 100% FLF concentration and control. In vegetative growth experiment, the parameters like TPH, GP, RL increase with increase in FLF concentrations upto a certain limit. The plants which are given 75% of FLF concentrations show increase in growth as compared to the plants given high (100%) and low (25% & 50%) FLF concentrations and control. The plants treated with 100% FLF concentration has more ionic content. Amount of sodium, potassium and nitrogen present in plants treated with 100% FLF concentration is high as compared to plants treated with 25%, 50% and 75% FLF concentrations and control.