Abstract
Four isocaloric and isonitrogenous rations containing various levels (0% or control), 33%, 67% and 100% of fish meal) of poultry by-product meal (PBM) were fed to three replicate groups of mirror carp (Cyprinus carpio) fingerlings with a mean initial weight of 15.40±0.03 g. 50 fish per tank were tested for 10 weeks in 500 l fibreglass tanks. Average weight gain of carp fingerlings fed the control were significantly (P<0.05) higher (42.63±0.66) compared to fish fed 33%, 67% and 100% PBM of fish meal (30.14±0.06, 25.91±0.48 and 19.77±0.07, respectively). Significant variation in feed conversation ratios which varied between 1.71±0.02 and 2.81±0.03 for the control and 100% PBM, respectively, were obtained among the groups. Similarly, specific growth rate and protein efficiency ratio decreased significantly (P<0.05) as the level of PBM increased. However, condition factor, dress out percentage and the whole body composition didn’t exhibit any significant variation among the test groups.

Key Words: diet, common carp, Cyprinus carpio, poultry by-product meal, fish meal.