



Ref. No.

Date : 04.02.2020

## Certificate

*This is to certify that the research work embodied in this thesis entitled " Biology, Captive Maturation and Breeding of Nobel Gourami, Ctenops nobilis McClelland, 1845" has been carried out by Miss Shreya Bhattacharya under my supervision and guidance. She has followed the rules and regulations as laid down by Vidyasagar University for the fulfillment of requirement for the degree of Doctor of Philosophy (Science). This research dissertation is original and based on the extensive survey blended with laboratory studies. I sincerely believe that any part of this research dissertation has not been submitted elsewhere for any other degree or award. The assistance and help received during the course of investigation have been duly acknowledged.*

*I wish her all success in life.*

Date : 04.02.2020

Place : Midnapore

(Dr. Joydev Maity)