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CERTIFICATE

This is to certify that the research work embodied in this thesis entitled "**Studies on seasonal and sex variations in biology and anatomical peculiarities of certain Indian Major Carps**" submitted in partial fulfillment of the requirements for the Degree of Doctor of Philosophy in Science in the record of bonafide research work carried out by Mrs. Susmita Das (Registration No. 0854/Ph.D. (Sc.) dt.17.06.2014) under my supervision and guidance.

No part of the thesis has been submitted for any other degree or diploma.

This is also certified that Mrs. Susmita Das is a research scholar of the Department of Aquaculture Management & Technology has fulfilled all the requirements of Vidyasagar University Ph.D regulations for submission of the thesis.

The assistance and help received during the course of this investigation and the source of literatures drawn have been duly acknowledged. I wish her every success in life.

Date: 09/09/2019

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