

## UNIVERSITY OF NORTH BENGAL DEPARTMENT OF CHEMISTRY

P.O. NORTH BENGAL UNIVERSITY, RAJA RAMMOHUNPUR, DIST. DARJEELING, WEST BENGAL, INDIA, PIN - 734 013.

PHONE: (0353) 2776 381, FAX: (0353) 2699 001

Ref. No		Dated	20

## **CERTIFICATE**

I certify that Mrs. Barnali Kar has prepared the thesis entitled "ORGANIC TRANSFORMATIONS IN MICROEMULSION MEDIA", for the award of Ph.D. degree of the University of North Bengal, under the guidance of Prof. Swapan Kumar Saha (Retd.), UGC-Emeritus Fellow (Co-Guide) and myself (Guide). She has carried out the work at the Department of Chemistry, University of North Bengal. No part of this thesis has formed the basis for the award of any degree or fellowship previously.

Dr. Sajal Das

Assistant Professor

Assistant Professor Department of Chemistry University of North Bengal Darjeeling - 734013, India

Department of Chemistry

University of North Bengal

Darjeeling-734013

West Bengal

India

DATE: 05-03-2017



## UNIVERSITY OF NORTH BENGAL DEPARTMENT OF CHEMISTRY

P.O. NORTH BENGAL UNIVERSITY, RAJA RAMMOHUNPUR, DIST. DARJEELING, WEST BENGAL, INDIA, PIN - 734 013. PHONE: (0353) 2776 381, FAX: (0353) 2699 001

Ref. No	Dated	20

## CERTIFICATE

I certify that Mrs. Barnali Kar has prepared the thesis entitled "ORGANIC TRANSFORMATIONS IN MICROEMULSION MEDIA", for the award of Ph.D. degree of the University of North Bengal, under the guidance of Dr. Sajal Das (Guide) and myself (Co-Guide). She has carried out the work at the Department of Chemistry, University of North Bengal. No part of this thesis has formed the basis for the award of any degree or fellowship previously.

Emeritus Fellow

Department of Chemistry University of North Bengal Darjeeling - 734013, India

Prof. Swapan Kumar Saha (Retd.)

Emeritus Fellow (UGC)

And aly

Department of Chemistry

University of North Bengal

Darjeeling-734013

West Bengal

India

05.03,2017 DATE: