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CERTIFICATE

I certify that Mr. Raja Ghosh has prepared the thesis entitled "PHYSICOCHEMICAL INVESTIGATION OF SOME IONIC LIQUID BASED SURFACTANTS AND BIOLOGICALLY ACTIVE MOLECULES IN DIVERSE ARRANGEMENTS", for the award of Ph. D. degree (Doctor of Philosophy) of the University of North Bengal, under my guidance. He has carried out the work at the Department of Chemistry, University of North Bengal.

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DATE: *22/06/2018*

"PHYSICOCHEMICAL INVESTIGATION OF SOME IONIC LIQUID BASED SURFACTANTS AND BIOLOGICALLY ACTIVE MOLECULES IN DIVERSE ARRANGEMENTS",



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