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## CERTIFICATE

This is to certify that Smt. Antara Sarkar has prepared the thesis entitled "SYNTHESIS, CHARACTERIZATION AND BIOCIDAL ACTIVITIES OF THE DERIVATIVES OF STEROIDS AND PENTACYCLIC TRITERPENOIDs" for the award of Ph.D degree of the **University of North Bengal**, under my guidance. She has carried out the work at the Department of Chemistry, University of North Bengal, Darjeeling, West Bengal- 734013.

Dr. Pranab Ghosh (Research Supervisor)

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Date: 03.02.2015

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