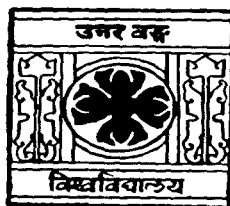


UNIVERSITY OF NORTH BENGAL

Dr. M. N. Roy, M. Sc., Ph. D.
Reader in Physical Chemistry

DEPARTMENT OF CHEMISTRY
E-mail: mahendraroy2002@yahoo.co.in



Phone : 0353 2776381
Fax: 91 353 2699001
North Bengal University,
Darjeeling 734 013
INDIA
October, 2009

It gives me immense pleasure to certify that Mr. Prasanna Pradhan, M.Sc. in Chemistry has carried out his research work embodied in the thesis entitled "**Studies on Solution Properties Prevailing in Some Industrial Solvents by Physico-Chemical Methods**," based on his original work under my supervision and guidance.

He is going to submit his thesis for the award of Doctor of Philosophy degree in Chemistry in the Faculty of Science as per the rules and regulations of the University of North Bengal. The research work included in this thesis is original and has not been submitted previously in any form for the fulfillment of the Degree or Diploma to this University or any other University and research institutions.

I am very much impressed for his keen interest, research aptitudes and sincere attempt to study the various phenomena in connection with his research in the field of "**Solution Thermodynamics**" which demands far-reaching effects in the modern battery and medicinal industries including pharmaceuticals and cosmetics products. According to me, he is fit and proper person to be conferred with the degree of Doctor of Philosophy (**Ph.D.**) in Chemistry (Science) of the University of North Bengal.

Needless to say he is sober, honest, meritorious, energetic, active and industrious person and I venture to say that he will be able to prove himself worthy if he is placed in a higher position.

I wish him every success in life.

Mahendra Nath Roy
20.10.2009

Dr. Mahendra Nath Roy
READER IN CHEMISTRY
University of North Bengal