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DATED..... 05. 02. 02.....

Dr. M.R.Adhikari

It gives me immense pleasure in certifying that the thesis entitled " A STUDY OF FUNCTORS AND ASSOCIATED TOPOLOGICAL SPACES" by Sri Pravanjan Kumar Rana has been carried out under my supervision . He has fulfilled all the requirements as laid down by the University of Burdwan for this research for the Degree of Doctor of Philosophy in Science (Mathematics) . He has also delivered two seminar lectures in the Department of Mathematics of the University of Burdwan for this purpose . The thesis , now submitted for the Degree of Doctor of Philosophy in Science (Mathematics) of the University of Burdwan , has not been submitted previously by him elsewhere .

A handwritten signature in black ink, appearing to read 'M.R. Adhikari'.

M.R.Adhikari.

(Supervisor)

**Dr. M. R. Adhikari**  
Professor  
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