


## CERTIFICATE

This is to certify that the data embodied in the thesis entitled "Optical Study of Hardness Anisotropy and Chemical Dissolution of Crystalline Materials (Calcite and Sodium Nitrate)" is an original piece of work by Shri D.R. Joshi carried out under my immediate supervision and guidance. He has put in research for the requisite number of terms as required by the University. It is also certified that the work has not been submitted to any other university/institute for any research degree.

  
(Prof. J.R. PANDYA)  
Guiding Teacher.