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I, **Sana Parveen Ansari**, research scholar under the supervision of **Dr. Subir Das**, Associate Professor, Department of Mathematical Sciences, Indian Institute of Technology (BHU), Varanasi give undertaking that the thesis entitled "STUDY OF CHAOS AND SYNCHRONIZATION IN DYNAMICAL SYSTEMS" submitted by me for the degree of **Doctor of Philosophy** is a record of first-hand research work done by me during the period of study.

I do further undertake the responsibility for mistakes, error of facts and misinterpretations, if any, in the thesis which is of course entirely of my own.

Date

(**Sana Parveen Ansari**)

Place: Varanasi

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This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Signature of the Supervisor
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This is to certify that **Ms. Sana Parveen Ansari**, a bonafide research scholar of this department, has successfully completed the **Ph. D.** course work and comprehensive examination requirement which is a part of her **Ph. D.** programme.

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