**CANDIDATE'S DECLARATION** 

**I, Sana Parveen Ansari,** certify that the work embodied in this **Ph. D.** 

thesis is my own confide work carried out by me under the supervision

of **Dr. Subir Das** for a period of 3 years at Department of Mathematical

Sciences, Indian Institute of Technology (BHU), Varanasi. The matter

embodied in this Ph. D. thesis has not been submitted for the award of

any other degree/diploma.

I declare that I have faithfully acknowledged, given credit to and

referred to the research workers whenever their works have been cited

in the text and the body of the thesis. I further certify that I have not

willfully lifted up some other's work, para, text, data, results, etc.

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Place: Varanasi

(Sana Parveen Ansari)