**DECLARATION BY THE CANDIDATE** 

I, **PRASHANT KUMAR MISHRA**, certify that the work embodied in this thesis is my own

bonafide work and carried out by me under the supervision of Dr. SUBIR DAS from a period

June 2013 to January 2017 at DEPARTMENT OF MATHEMATICAL SCIENCES, Indian

Institute of Technology, Varanasi. The matter embodied in this thesis has not been submitted

for the award of any other degree/diploma. I declare that I have faithfully acknowledged and

given credits to the research workers wherever their works have been cited in my work in this

thesis. I further declare that I have not willfully copied any other's work, paragraphs, text,

data, results, etc., reported in journals, books, magazines, reports dissertations, theses, etc., or

available at websites and have not included them in this thesis and have not cited as my own

work.

Date: .....

Place: Varanasi

(PRASHANT KUMAR MISHRA)

CERTIFICATE FROM THE SUPERVIS OR/CO-SUPERVISOR

It is certified that the above statement made by the student is correct to the best of my/our

knowledge.

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