DECLARATION BY THE CANDIDATE

I, **Jagdish Prasad Maurya** certify that the work embodied in this thesis is my own
bonafide work and carried out by me under the supervision of Prof. Sanjay Kumar
Pandey from September-2012 to September-2018, at the Department of Mathematical Sciences, Indian Institute of Technology (BHU) 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 lifted up any other's work, paragraphs, text, data, results,
etc., reported in journals, books, magazines, reports dissertations, theses, etc., or
available at websites and included them in this thesis and cited as my own work.

Date :   **Signature of the Student**

Place :   **(Jagdish Prasad Maurya)**

CERTIFICATE BY THE SUPERVISOR

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

Signature of Head of Department

(Prof. L P Singh)

Signature of Supervisor

(Prof. Sanjay Kumar Pandey)