Inverse 1-Center and Minimum Average Distance Problems on Graphs

Thesis submitted to the

Vidyasagar University, Midnapore, India

for the award of the degree of

DOCTOR OF PHILOSOPHY (SCIENCE)

by

Biswanath Jana

(Reg. No. 1160 / Ph.D. (Sc.), dt. 28.11.2016)

under the guidance of

Dr. Sukumar Mondal

Department of Mathematics (UG & PG)

Raja Narendra Lal Khan Women's College (Autonomous)

Midnapore- 721102, INDIA

And

Professor Madhumangal Pal

Department of Applied Mathematics with

Oceanology and Computer Programming

Vidyasagar University

Midnapore- 721102, INDIA