

CERTIFICATE

This is to certify that the thesis entitled “ANTIOXIDANT AND APOPTOSIS-MODULATING EFFECTS OF *Artemisia vulgaris* LEAF EXTRACTS ON *in vitro* SYSTEMS SUBJECTED TO OXIDATIVE STRESS” submitted to the Avinashilingam Deemed University for Women, Coimbatore, for the award of the degree of **DOCTOR OF PHILOSOPHY IN BIOTECHNOLOGY**, is a record of original research work done by **A.KAMARUL HANIYA**, during the period of her study in the Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Deemed University for Women, Coimbatore, under my supervision and guidance and the thesis has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

P. J. P.
21/5/10

SIGNATURE OF THE GUIDE

Parnathankar 21/5/10

**SIGNATURE OF THE
HEAD OF THE DEPARTMENT**