

DR.V.K.K. PRABHU  
PROFESSOR

DEPARTMENT OF ZOOLOGY  
UNIVERSITY OF KERALA  
KARIYAVATTOM-695581  
TRIVANDRUM, KERALA

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CERTIFICATE

This is to certify that this thesis is an authentic record of the work carried out by Smt.Mariamanna Jacob, M.Sc., under my supervision and guidance and that no part there of has been presented before for any other degree and also that she has passed the Ph.D. qualifying examination held in November 1977.

V. K. K. Prabh

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