Declaration

I hereby affirm that the work presented in this thesis is my own and there are no collaborators and that it does not contain work for which a degree has been awarded by any other university.

Ramandeep Kaur

(Signature and name of the Candidate)

Countersigned  Supervisor

Day     Month     Year   Dr Birinder Pal Singh

Countersigned  Supervisor

Day     Month     Year   Prof Bhupinder Singh