The present thesis entitled 'Approximation of classes of functions' is the outcome of my researches that I have been pursuing for the last three years, under the esteemed supervision of Dr. Sarfaraz Umar, Professor in the Department of Mathematics and Statistics of Aligarh Muslim University, Aligarh.

I have great pleasure in taking this opportunity of acknowledging my deep sense of gratitude and indebtedness to Professor Sarfaraz Umar for his inspiring guidance and encouragement all along.

All the results in this thesis have been communicated for publication in various journals of international repute, quite a many of which have already been accepted for publication (Please see Appendix B for the letters of acceptance).

In Chapter I, I have given a resume of the previous work that is closely related to my investigations and I have shown how new results have been obtained which extend or generalize the previous results. In Chapter II, I have worked with the problem of saturation for the triangular means \(^\wedge\). In Chapter III, the study of degree of approximation of functions belonging to the class \(\mathcal{U}(\mathcal{Y}(t))\) using triangular
operators has been discussed, while Chapter IV deals with the necessary and sufficient conditions for the degree of approximation of functions belonging to a newly introduced class $W(I^P, \psi(t))$. In Chapters V and VI, $A\lambda$, $\lambda(p_n)$, and Borel-operators have been used in order to determine the degree of approximation of functions belonging to the class Lip( $\psi(t), p$). Chapter VII uses triangular operators for the degree of approximation of certain functions in terms of modulus of continuity.

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