















“Fig.12.” Transverse velocity profiles for different values of  $G_c$ .

## V Conclusion

In this paper we have studied the effects of Hall current, Rotation effect on MHD flow through an exponentially accelerated vertical plate with uniform temperature and variable mass diffusion. In the analysis of the flow the following conclusions are made.

- (1) The concentration near the plate increases with decreasing values of the Schmidt number.
- (2) The temperature of the plate decreases with increasing values of prandtl number
- (3) Both Axial velocity and Transverse velocity increase with decreasing values of Magnetic field parameter or Rotation parameter. Also the Axial velocity increase with decreasing values of Hall parameter but the trend is reversed in Transverse velocity.
- (4) Both Axial velocity and Transverse velocity increase with increasing values of thermal Grashof number.
- (5) Axial velocity increases with increasing values of mass Grashof number whereas the transverse velocity increase with decreasing values of mass Grashof number.

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