rolling resistance force and total resistance force versus longitudinal speed. Use the following vehicle parameters in the table below. At the speed of 20km/hr and 80km/hr, find the percentage of aerodynamics force from the total resistance force. Determine the approximate motor ratings corresponding to these speeds.

12 Marks

Q.2. Consider a vehicle moving along a flat road. Draw the graphs of the aerodynamic force,

and draw the block diagram rating of the venicles

$$\rho_a = 1.2 \frac{kg}{m^3}$$
 $C_d = 0.3$ $A_f = 2.1 \, m^2$ $M = 1200 \, kg$ $\mu_R = 0.015$